



COUNTY BOROUGH OF SALFORD.

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ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

FOR THE YEAR

1903.

BY

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OF SALFORD.

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SALFORD:

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1904.



## TO THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit my Sixth Annual Report on the Health of the Borough, and the work of the Department.

The Death rate for the year was 19·1, being even lower than last year, which was the lowest on record up to that date. The birth rate was 32·2 per thousand.

Small-Pox has invaded the Borough 36 times during the year, the infection being most frequently introduced by tramps. The total resulting number of cases was 183.

The Midwives Act which came into force during the year will entail a very considerable amount of extra work on the staff of the Department, as will the arrangement by which I act as Medical Officer to the Education Committee, and to assist in meeting the additional demands an Assistant Medical Officer (Dr. J. J. Butterworth) has been appointed.

Cellar Bakehouses have received a great amount of attention during the year, and next year I hope to be able to report a satisfactory solution of all difficulties in connection with them.

The important work of improving the conditions of housing in the Borough has received great attention from the Health Committee, and the conversion of the Borough to the Water Carriage System has steadily progressed.

I have the honour to be, Gentlemen,

Your obedient servant,

C. H. TATTERSALL.

Town Hall,

Salford,

*July, 1904.*





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PART I.

MORTALITY STATISTICS.



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## PART I.

# MORTALITY STATISTICS.

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### POPULATION.

The Registrar-General estimates that the population of the County Borough of Salford was **226,480** in the middle of 1903, and this number—which is ascertained by assuming that the population of the Borough continues to increase at the same rate as in the decennium 1891 to 1901—is made the basis on which the various Birth, Death, and Sickness rates mentioned in his report are calculated.

The male population is estimated to have been **109,460**, and the female, **117,020**.

The age distribution of the population is—

Under five years of age .....	27,246
From 5 to 15 .....	47,911
,, 15 to 25 .....	46,451
,, 25 to 65 .....	98,281
Over 65 .....	6,591

The population is divided among the four districts as follows :—

Regent Road .....	72,121
Greengate .....	33,415
Pendleton .....	69,909
Broughton.....	51,035

The natural increase of the population for the year, that is, the excess of births over deaths was 2,959, as



compared with the estimated increase of 2,473, so that if the estimate is accurate the balance of the migration of the population is against the Borough.

### BIRTHS

There were 7,284 births registered in the Borough in 1903, 3,700 being males; and 3,584, females, giving a birth-rate of 32·2 per thousand of the population.

This is a decrease from the previous year of 415 births, or a reduction in the birth-rate of 1·8 per thousand.

The birth-rate in the Regent Road District was 33·7; in the Greengate District, 34·0; in Pendleton, 33·7; and in Broughton, 26·6.

The birth-rate for the 76 large towns averaged 29·7, and for the whole of England and Wales, 28·4; as compared with 32·2 in Salford.

There were 243 births registered as illegitimate or 3·3 per cent. of the total births, which is a slight reduction when compared with the previous year, there being 29 fewer illegitimate births registered, and the percentage of the total births is ·4 per cent. less.

There appears some reason to believe from information which has been received in our inquiries into infantile deaths, that some illegitimate births were registered as legitimate.

The illegitimate births in the various districts were—

Regent Rd.,	83	or	3·4	per cent. of the total births.
Greengate,	44	or	3·9	„ „ „
Pendleton,	74	or	3·1	„ „ „
Broughton,	42	or	3·1	„ „ „



This, with the exception of Greengate which shows distinct improvement, is practically the same as the averages of the previous ten years which were—Regent Road, 3·5 per cent. ; Greengate, 4·7 per cent. ; Pendleton, 3·5 per cent. ; and Broughton, 2·9 per cent.

There were 74 illegitimate births in the first quarter, 47 in the second, 71 in the third, and 51 in the fourth.

**Still Births.**—I have ascertained from the Registrars of the Cemeteries that the bodies of 328 still born children have been buried. It is extremely unsatisfactory that the registration of the births of still born infants is not compulsory.

#### DEATHS.

The total number of deaths registered in the Borough during 1903 was 4,325, of which numbers 2,276 were males and 2,049, females, giving a **death-rate of 19·1** per thousand of the population.

This is the third successive year in which the death-rate has been the lowest on record for the Borough. Thus the death-rate for 1901 was 21·7 ; for 1902, 19·2 ; and for the present year, 19·1.

The records go back to the year 1844, when the population of Salford was only 75,414 ; and the death-rate has been steadily declining since the year 1871, when it was 30·3 per thousand, with a population of 125,890.

The causes of this reduction are probably various, the greatest being the cool summers of the past three years ; still there appears good reason to believe that the action of the Corporation in clearing the slums and replacing the privy middens by water-closets is having a

very perceptible beneficial effect on the health of the town, for it must not be forgotten that a slight reduction in the death-rate indicates a considerable reduction in the amount of sickness prevalent.

There were 1,119 deaths in the first quarter of the year, 970 in the second, 1,030 in the third, and 1,206 in the fourth.

The accompanying chart shows the number of deaths registered weekly from all causes, and from zymotic diseases respectively.

**District Mortality Rates.**—The death-rate in the Regent Road District was 22·0 per thousand, as compared with 24·4 the average for the preceding five years, and 19·1 the death-rate for the whole Borough.

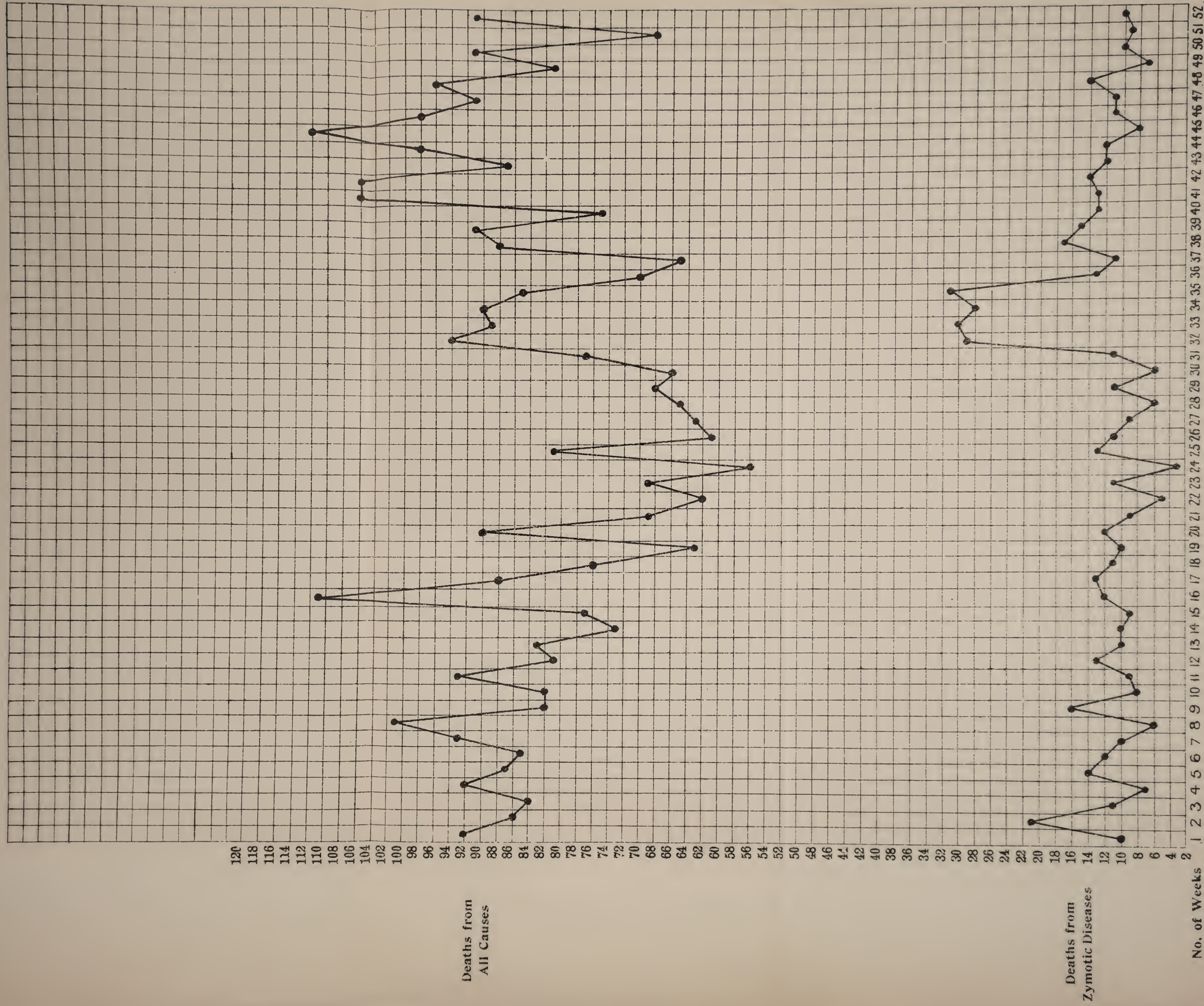
In Greengate the death-rate was 24·6 per thousand, as compared with 31·1 per thousand for the preceding five years; in Pendleton it was 16·7, as compared with 20·5; and in Broughton 14·6, as compared with 16·6 the average for the preceding five years.

Thus, Regent Road and Greengate were above the average for the Borough, and Pendleton and Broughton were below it. This is exactly what might have been expected, Greengate and Regent Road being the older portions of the Borough.

The fact of the death-rate in Regent Road remaining at a standstill while the other districts are steadily improving is very noteworthy. This is the only district in which the work of transformation of dwellings from back-to-back to through houses, and the conversion of privies to water-closets has had to remain at a standstill. This is owing



# Deaths in each week from All Causes, and from Zymotic Diseases, 1903.





Deaths in each week from all causes and from  
Symptomatic Diseases, 1903.



to the fact that the water supply in this district is so deficient that it is not considered safe to put in more water-closets. The question of a better water supply for Regent Road requires early settlement in the interests of the health of its large population (over 71,000).

Then again, Greengate which has received most attention—large numbers of houses having been closed or converted, and almost the whole of the privies converted into water-closets—shows the greatest improvement. This district, from its low-lying position on the bank of the river, and from the character of its inhabitants which are entirely of the artizan or labouring class, and from the fact that the bulk of the common lodging houses in the Borough are within its borders, will probably always have an excessive death-rate when compared with more favoured parts of the town, but the very marked improvement shown is most encouraging to the Health Committee to persevere in the policy which is rapidly transforming what was the plague spot of Salford.

Broughton and Pendleton also show improvement, and the former has a remarkable death-rate when it is considered that its population (over 50,000) is so large, and that it receives practically the whole smoke from Pendleton and the Adelphi, two of the principal areas for large works in the Borough.

**Deaths at Various Ages.**—These are shown in detail in Tables Nos. 3, 4 and 12.

Comparing the death-rates with the previous year, it is found that under five years of age the rate is 70·1 per thousand against 67·4; from five to 15 years of age the

rate is 4·1 against 3·5; from 15 to 25, 3·5 against 4·1; from 25 to 65, 14·7 against 15·5; and over 65, 92·5 against 94·5 per thousand.

**Infant Mortality.**—There were 1,226 deaths of infants under one year of age, registered during the year, giving a death-rate of 168 per thousand births. This is a distinct increase on the previous year when, with a death-rate of 157 per thousand births, a very remarkable reduction of almost 25 per cent. from the average was shown, but it was scarcely to be expected that this could be maintained, still the infant mortality is wonderfully improved since 1895, when it was 229 per thousand. The improvement in the past two years is mainly due to the cool summers we have had, which have prevented the epidemics of summer diarrhœa which are so fatal to infant life.

The chief causes of death among infants, compared with the average of the preceding five years, were—

Zymotic diseases .....	336	compared with	409
Atrophy, marasmus, debility .....	179	„ „	209
Premature birth.....	168	„ „	155
Convulsions .....	96	„ „	98
Bronchitis and pneumonia	206	„ „	215
Disease of digestive system	90	„ „	152

The 336 deaths from zymotic disease were principally due to diarrhœa, 160; measles, 35; whooping cough, 41; and tuberculosis, 59.



The work of the Lady's Health Society's Visitors in the Greengate District, in keeping each newly born child under observation, has been continued, and the information contained in Tables A and B has been obtained.

TABLE A.—SHEWING NATURE OF FOOD AND TOTAL DEATHS AMONG THE BIRTHS SPECIALLY FOLLOWED UP.

Nature of Food.	Number of Births.	Per cent. of total.	Number of Deaths.	Death Rate per 1,000.
Breast only .....	873	82	100	114·5
Breast milk with other milk or food .....	87	8	17	195·4
Fresh milk .....	78	7	25	320·5
Other Food .....	31	3	14	451·6
Totals .....	1069	...	156	145·9

TABLE B.—DEATHS OF INFANTS UNDER ONE YEAR DURING THE YEAR 1902.

Cause of Death.	Under 1 Month.	Under 2 Months.	Under 3 Months.	Under 4 Months.	Under 5 Months.	Under 6 Months.	Under 7 Months.	Under 8 Months.	Under 9 Months.	Under 10 Months.	Under 11 Months.	Under 12 Months.	Total.	Rate per 1,000 Births.
Premature Birth ...	23	5	...	...	...	...	...	...	...	...	...	...	28	22·2
Congen : Malform :	2	...	...	...	...	...	...	...	...	...	...	...	2	1·5
Debility .....	8	1	1	2	1	...	...	...	...	...	...	...	13	10·3
Atrophy .....	4	2	...	2	5	3	2	1	...	...	...	...	19	15·0
Lung Disease .....	3	3	1	1	5	3	3	5	3	2	3	3	35	27·7
Tubercular Disease	1	2	...	...	...	2	...	1	3	...	...	...	9	7·1
Enteritis .....	...	...	...	1	...	...	...	...	...	...	...	...	1	0·8
Diarrhœa .....	...	3	2	1	4	2	3	1	...	2	2	...	20	15·8
Convulsions .....	1	3	3	...	2	...	...	2	1	...	...	...	12	9·5
Scarlet Fever .....	...	...	...	...	...	...	...	...	...	1	...	...	1	0·8
Measles .....	...	...	...	...	...	...	1	1	1	2	3	2	10	8·0
Whooping Cough...	1	...	...	2	2	3	...	1	...	...	1	1	11	8·7
Erysipelas.....	...	...	1	...	...	...	...	...	...	...	...	...	1	0·8
Overlaid .....	4	2	...	1	1	...	...	...	...	...	...	...	8	6·3
Other Diseases.....	6	3	2	...	1	2	...	1	1	3	1	...	20	15·8
Totals.....	53	24	10	10	21	15	9	13	9	10	10	6	190	150·5

The most remarkable fact which has been ascertained is the very large proportion of the infants which were fed from the breast, viz., 82 per cent. This was an increase of 7 per cent. when compared with the previous year, and this increase is undoubtedly due to the efforts of the Visitors.

Comparing the mortality with the previous year there is an increase in each group, except that fed on fresh milk alone, and here the death rate has dropped from 400 to 320 per thousand. This again may be fairly attributed to the greater care and cleanliness engendered by the advice of the Visitors.

Table B is compiled from the returns of the Visitors, and relates to 1,262 infants born in 1902 and kept under observation until they arrived at the age of 12 months or died.

It is noticeable that the death rate of these children, although living in our most unhealthy district, was below the rest of the Borough, being 150 per thousand as compared with a rate for the Borough in 1902 of 157, and in 1903 of 168.

It should also be stated that about 70 out of the 190 deaths occurred before the infants came under observation.

Among the 1,262 infants observed there were 39 illegitimate. Of these 9 died, 10 removed out of the district and were lost sight of, and 20 lived to the age of 12 months.

I learn from the Visitors that there has been a distinct improvement in the condition of the dwellings during the year, and that they find mothers more willing to accept

advice, as to the feeding of their infants, than they were when the movement was first commenced.

In Table No. 13 the infant mortality rate for the 33 Great Towns is given, and Salford is 30th in the list.

Compared with the eight Lancashire towns as regards Infantile Mortality Salford stands sixth, the rates being Bolton 153, Blackburn 159, Liverpool 159, Oldham 162, Preston 163, Salford 168, Manchester 169, and Burnley 217.

**Senile Mortality.**—Of the total deaths 610 or 14 per cent. of the total deaths, or the same percentage as in the previous year.

Of these 93 were certified to have died from old age, 92 from heart disease, 160 from bronchitis, and 33 from pneumonia.

**Comparison of the Death Rate in Salford with that in the 33 Great Towns.**—This is shown in Table No. 13 where the details will be found.

The death rate for the year in the whole of England and Wales was 15·4 per thousand, in the 33 Great Towns it averaged 16·7, and in Salford it was 19·1 per thousand.

**Classification of the Causes of Death.**—This is set out in full detail in Table No. 12 appended to this report. From this it is seen that of this total, 4,325 deaths from all causes, there were from—

Zymotic diseases	1,314	deaths,	or	30·4	per cent. of the total deaths.
Constitutional	„	183	„	4·2	„
Developmental	„	316	„	7·3	„
Local	„	2,050	„	47·4	„
Other	„	462	„	10·7	„
		<hr/>		<hr/>	
		4,325		100·0	
		<hr/>		<hr/>	



**Zymotic Diseases.**—The zymotic death rate for the year was 2·8 per thousand of the population, as compared with 2·6 in the previous year, 4·2 in 1901, and 4·1 in 1900.

The deaths from the various diseases are given in the following table :—

	1903.	1902.		1903.	1902.
Measles.....	131 ...	156	Whooping Cough ...	96 ...	118
Scarlet Fever .....	57 ...	50	Diphtheria.....	86 ...	75
Fever {	Typhus ...	— ... 12	Diarrhœa .....	224 ...	144
	Enteric ...	48 ... 48	Small-pox .....	1 ...	1
	Continued..	1 ... —			

Detailed information as to Zymotic sickness will be found in Part II. of this report.

**Acute Lung Diseases.**—From bronchitis, pneumonia, and pleurisy, 882 deaths were registered, against 973 for 1902, 952 for 1901, and 1,328 for 1900. From bronchitis there were 460 deaths, giving a death rate of 2·0 per 1,000 persons living, while from pneumonia there were 418 deaths, giving a death rate of 1·8.

From respiratory diseases generally there were 91 fewer deaths than in 1902.

**Cancer.**—There were 148 deaths registered as being due to cancer or malignant disease, giving a death rate of 0·7 per thousand.

The rate is identical with that of last year.

**Nervous Diseases.**—From the various nervous diseases there were 432 death, giving a death rate of 1·9 per 1·000, as compared with 2·0 in 1902, 1·9 in 1901, 2·4 in 1900, and 2·2 the average for the five years 1895 to 1899.

**Heart Disease.**—There were 317 deaths from heart disease. This gives a death rate of 1·4 per 1,000, compared with 1·4 for 1902, 1·5 for 1901, 1·7 for 1900, and 1·3 the average for the five years 1895 to 1899.

**Comparison with Decennial Averages.**—In Table II. there will be found an interesting comparison of the deaths from various specified causes, in 1903, with the decennial average number for the Borough, and from this it will be seen that in only three diseases was there an increase, viz., heart disease with an excess of 22, premature birth 20, and diphtheria 17.

The greatest diminution was in respiratory diseases, which were 173 below the average, and diarrhœal diseases, which were 132 below; the former being apparently due to the mild winter and the latter to the cool summer.

**Phthisis, Tubercular Diseases, and Influenza.**—The mortality from these diseases will be found in Part II. of this report.

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PART II.  
INFECTIOUS DISEASES.

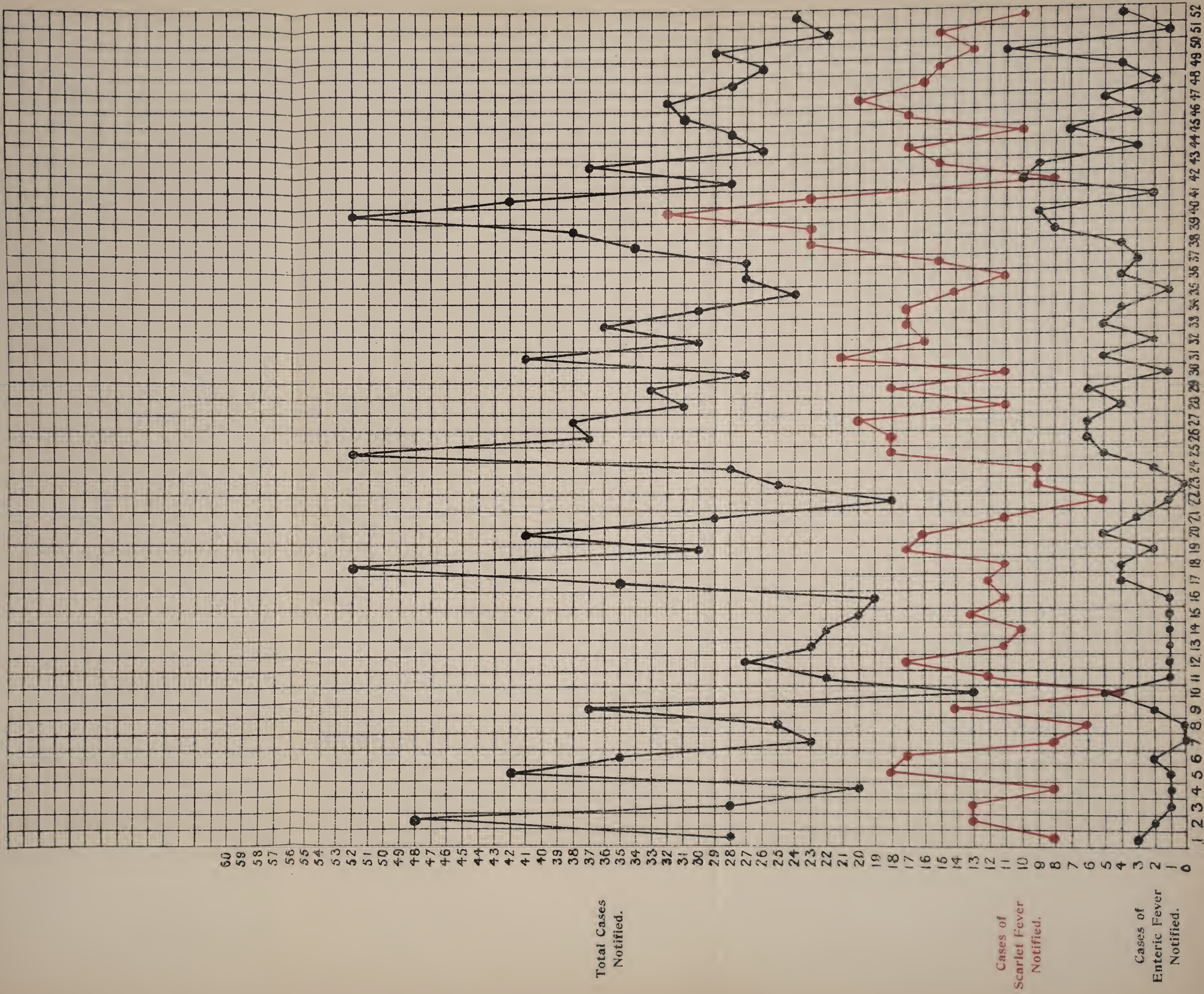




# Notification of Infectious Disease, 1903.

Showing total number of Cases Notified, cases of Scarlet Fever and Enteric

Fever in each week of the year.







## PART II.

# INFECTIOUS DISEASES.

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The total number of cases of infectious disease notified to the Health Department, under the Infectious Diseases Notification Act for the year 1903, was 1,600, which is 69 more than in the previous year and 150 below the average for the preceeding five years.

There were 175 cases of small-pox, 737 of scarlet fever, 335 of diphtheria, and 178 of enteric fever. Full details, for comparison, of these figures with preceding years will be found in Table No. 18, but it may be here stated that, with the exception of small-pox and diphtheria, these numbers show a decrease from those of 1902 and from the average of the preceeding five years.

The zymotic death-rate for the year was 2·8 per thousand, compared with 2·6 in 1902, 4·2 for 1901, 4·1 for 1900, and 4·4 for 1899. These figures included the deaths from diarrhœa, measles and whooping cough, in addition to the notifiable diseases.

Particulars as to sickness from the non notifiable infectious diseases cannot be given, but the particulars of mortality are as follows :—

Phthisis .....	407	deaths.
Other Tubercular Diseases .....	159	„
Measles .....	131	„
Whooping Cough .....	96	„
Diarrhœa .....	224	„
Influenza .....	36	„

The accompanying chart shows the weekly incidence of the cases notified, from which it will be seen that the

highest number in any one week was 52, which occurred in the 18th, 25th and 40th weeks, and the lowest number was 18 in the 22nd week. In 1902 the highest number was 46 in the 45th and 53rd weeks, and the lowest, 12 cases in the 19th week.

**Comparison with England and Wales, &c.**—The mortality rates from scarlet fever, diphtheria, whooping cough, measles, and diarrhoea, are given in Table No. 23, where they are compared with the similar rates for England and Wales, the 33 Great Towns, and London, and it is very disappointing to find that the Salford rates compare so very unfavourably. Thus scarlet fever claims almost twice the number of victims in Salford as the average of the 33 Great Towns, the diphtheria rate is also almost twice the average. Whooping cough has a death-rate of 4·2 per 10,000, as compared with 3·0 in the 33 Great Towns, measles 5·8 as compared with 3·1, and diarrhoea 9·9 as compared with 7·2.

SMALL-POX.

Ages.	Vaccinated.			Unvaccinated.		
	Cases.	Deaths.	Percentage.	Cases.	Deaths.	Percentage.
Under 1 year...	...	...	...	...	...	...
1 to 5 years ...	4	...	...	2	...	...
5 to 15 „ ...	15	...	...	16	1	6·2
15 to 25 „ ...	34	1	2·9	6	2	33·3
25 to 65 „ ...	96	3	3·1	7	...	...
Over 65 „ ...	2	2	100·0	...	...	...
TOTAL .....	151	6	4·0	31	3	9·7

In one case—a girl aged 22—information as to vaccination could not be ascertained.  
Total cases, 183.



183 cases of small-pox occurred in the Borough of Salford during the year 1903.

Of these, 151 were vaccinated (this number includes all those with any vaccination marks, however small), 31 were unvaccinated, and in one case information could not be ascertained.

Of the vaccinated cases, 4·0 per cent. proved fatal; and of the unvaccinated, 9·7 per cent died.

In 36 instances the disease was imported into Salford from the following places, namely :—Sheffield, Kendal, Rochdale, Stockport, Manchester, Radcliffe, Ryhder (Wales), Stretford, Wakefield, Pendlebury, Liverpool, Swinton, Bolton or Warrington, Birch Vale, Oldham, Whitefield, Hayfield, Workington, Bradford, Prestwich, and Doncaster.

In 17 cases no trace of the source of infection could be found.

About 4,900 re-vaccinations were performed in direct connection with the cases of small-pox which occurred during the year. This number does not include the re-vaccinations which were performed at the Workhouse, Union Infirmary, the Salford Royal Hospital, and Elementary Schools. A large amount of re-vaccination took place especially in the Broughton district, and the total re-vaccinations in the Borough during the year are estimated to have been about 40,000.

No case of small-pox occurred in a recently vaccinated or re-vaccinated person.

## SCARLET FEVER.

Ages.	Cases.	Deaths.	
		Total.	Percentage.
Under 1 year ...	12	2	16.7
1 to 5 years...	241	39	16.2
5 to 15 „ ...	426	16	3.8
15 to 25 „ ...	40	...	...
25 to 65 „ ...	18	...	...
Over 65 „ ...	...	...	...
TOTAL.....	737	57	7.7

There were 737 cases of scarlet fever notified during 1903. This number is less by 43 than that for the preceeding year and 223 less than the average for the preceeding five years.

The attack rate is therefore 32.5 per 10,000 of the population, as compared with 34.2 for the preceding year.

There were 57 deaths, giving a mortality rate of 7.7 per cent. of the cases or 0.25 per thousand of the population.

The cases were spread over the whole year, as shown on the accompanying chart, being most numerous in the month of October, when there were 101 notifications, and fewest in June when there were 41 notifications.

SCARLET FEVER SICKNESS.—RATES PER 1,000 OF  
THE POPULATION.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
<b>Salford</b> (Borough)...	3·08	3·34	6·02	5·96	3·28	4·34	3·25
Regent Road .....	3·68	2·79	5·54	4·86	2·49	3·87	2·84
Greengate .....	3·64	3·26	6·70	9·13	3·02	5·15	3·11
Pendleton.....	2·25	3·69	6·63	4·97	3·37	4·18	4·09
Broughton .....	2·80	3·75	5·41	6·73	5·04	4·75	2·78

In respect of age scarlet fever showed itself to be mainly a disease of youth, 58 per cent. of the cases occurring between the ages of five and fifteen, 8 per cent. were over fifteen years of age and 34 per cent. were children under five years of age. The mortality, as might be expected, is much the heaviest among the latter, being over 16 per cent. of the cases, whereas between the ages of five and fifteen the mortality was 4 per cent., and there were no deaths over fifteen.

The Pendleton District suffered most, the attack rate being 40·9 per 10,000 of the population; in Greengate the rate was 31·1; in Regent Road 28·4; and in Broughton 27·8.

There were removed to the Ladywell Sanatorium 578 cases, or 78 per cent. of the total cases. This is the highest proportion ever removed and speaks strongly for the popularity of that institution.

RETURN CASES OF SCARLET FEVER.

During the year the experiment of discharging patients earlier than in the past has been tried. Desquamation as an indication of convalescence has been entirely ignored, and the patients have been discharged at the end of four weeks, or as soon afterwards as their general condition permitted, patients with nasal or ear trouble being retained until convalescent.



During the period covered by this experiment 390 patients were discharged. Of these 216 were still desquamating.

From these 216 cases 20 were connected with so-called "return cases," or 9·2 per cent., while of the remaining 174, who were discharged after desquamation had been completed, 23 or 13·2 per cent. were connected with "return cases."

These figures for "return cases" appear very high, but they include cases which occurred as long as seven weeks after the return of the first case, as shown in the table given below. If the return cases be limited to those occurring within three weeks of the return home, from the Hospital, of the primary case 15 of the 216 desquamating cases discharged proved capable of conveying infection or 7 per cent., and 21 of the 174 discharged after desquamation had been completed, or 12 per cent.

In either case the net result of the experiment is to prove, so far as such small figures can prove anything, that we were quite correct in neglecting entirely the presence or absence of desquamation as an indication of the presence or absence of infection.

All our observations go to confirm the conclusion of Professor Simpson, that return cases are essentially due to the persistence of discharge from the nose or ear, or to their recrudescence.

A very instructive case on this latter point occurred during the year. A child, C. B., was discharged from the Hospital at the end of four weeks from the commencement of its illness, it was then still desquamating. On its return home it mixed with other susceptible children without any harm resulting, until almost three weeks



after discharge a nasal catarrh occurred. Three days later a return case occurred.

This practice of discharging the patients, irrespective of their condition as to desquamation, is being continued, and most careful observation of their after history is being made. I may remark that a diminution in the number of return cases is taking place.

CASES OF SCARLET FEVER FOR THE YEAR 1903.  
CASES REMOVED TO HOSPITAL.

	Number.	Per cent. of Total Cases.	Number of Susceptible Persons under 15 remaining in House.	Number of Secondary Cases.	Per cent. of susceptibles under 15 left in house.
Primary Cases .....	493	64·2	947	105	11·1
Primary Cases in houses of four rooms or less .....	264	35·8	563	64	11·4
Primary Cases in houses of more than four rooms .....	209	28·4	384	41	10·7

CASES OF SCARLET FEVER FOR THE YEAR 1903.—*Continued.*  
CASES TREATED AT HOME.

	Number.	Per cent. of Total Cases.	Number of Susceptible Persons under 15 remaining in House.	Number of Secondary Cases.	Per cent. of susceptibles under 15 left in house.
Primary Cases .....	139	18·9	285	20	10·8
Primary Cases in houses of four rooms or less .....	48	6·5	59	8	13·6
Primary Cases in houses of more than four rooms .....	91	12·3	126	12	9·5

In respect to district, 79 cases occurred in Regent Road District, 18 in Greengate, 62 in Pendleton, and 19 in Broughton. The attack rates in the various districts were 110 per 100,000 living in Regent Road District, 54 in Greengate, 89 in Pendleton, and 37 in Broughton.

There were 118 cases removed to the Sanatorium, or 66 per cent. of the total cases, as compared with 57 per cent. in 1902, 56 in 1901, 57 in 1900, and 54 in 1899.

### DIPHTHERIA.

There were 335 cases of diphtheria notified during 1903, compared with 292 in 1902, and 223 the average for the preceding five years.

There were 86 deaths registered from diphtheria, giving a death rate of 26 per cent. of those attacked, compared with a death rate of 26 per cent. in 1902, and an average for the preceding five years of 33 per cent.

AGES.	CASES.	DEATHS.	
		TOTAL.	PERCENTAGE.
Under 1 year ...	13	6	46·2
1 to 5 „ ...	135	49	36·3
5 to 15 „ ...	146	26	17·8
15 to 25 „ ...	22	2	9·1
25 to 65 „ ...	19	3	15·8
Over 65 „ ...	...	...	...
TOTAL.....	335	86	25·7

The cases were spread over the whole year, the numbers ranging from 12 in April to 45 in August.

With regard to age, 294 cases or 88 per cent. were children under 15 years of age, and 148 cases or 44 per cent. were children under five years of age, the mortality among the latter class being very heavy, the deaths reaching the large proportion of 37 per cent. of the cases.

In respect to district, 93 cases occurred in Regent Road District, 42 in Greengate, 101 in Pendleton, and 99 in Broughton. The attack rate was highest in Broughton, being 194 per 100,000 persons living, and the lowest in Greengate, where it was 126 per 100,000.

During the year 245 specimens were forwarded by the medical practitioners to Professor Delepine for bacteriological examination. Where a positive result is obtained, an immediate and distinct advantage is gained by practitioner and patient, as it is usually followed up at once by anti-toxin injections.

A negative result is unfortunately not decisive in diphtheria, but the following table will show that the cases giving a negative result were evidently of a less serious character.

	Cases.	Mortality.	Percentage.
Notification of Diphtheria.....	335	86	25·7
Specimens submitted to Bacteriological examination with Positive results .....	102	17	16·7
Specimens submitted to Bacteriological examination with Negative results .....	143	5	3·5



Comparing Salford with England and Wales, the 33 Great Towns, and London, the mortality rates were as follows per 10,000 living.

England and Wales .....	2
33 Great Towns.....	2
London .....	2
Salford.....	4

### ENTERIC OR TYPHOID FEVER.

There were 178 cases of enteric fever notified during 1903, which is a decrease of 29 when compared with 1902, and also a decrease of 122 the average of the preceding five years. This gives an attack rate for the Borough of 79 per 100,000 persons living. Out of the 178 cases, 48 died, giving a mortality rate of 27 per cent.

The cases were most numerous in the months of July, October, and December, reaching their highest point, 11 cases, in the 50th week; they were least numerous in the months of February and April. On referring to the accompanying chart, it will be seen that the Autumnal rise was well marked.

With regard to age, the cases were most numerous in the age period 25 to 65 years, the number (77) being 43 per cent. of the total cases.



AGES.	CASES	DEATHS.	
		TOTAL.	PERCENTAGE.
Under 1 year ...	1	...	...
1 to 5 „ ...	15	2	13·3
5 to 15 „ ...	38	5	13·2
15 to 25 „ ...	47	8	17·0
25 to 65 „ ...	77	33	42·9
Over 65 „ ...	...	...	...
TOTAL.....	178	48	27·0

## ENTERIC FEVER.

	Cases.	Mortality.	Percentage.
Notification of Enteric Fever...	178	48	27·0
Specimens submitted to Bacteriological examination with Positive results .....	82	16	19·5
Specimens submitted to Bacteriological examination with Negative results .....	98	6	6·1

## PUERPERAL FEVER.

There were 13 cases of this disease notified during the year, of which two occurred in Regent Road District, four in Pendleton, and seven in Broughton.

There were 7,284 births during the year, so that the attack rate was 0·2 per cent.

Of these cases seven died, giving a mortality rate of 54 per cent.

### ERYSIPELAS.

There were 161 cases of erysipelas during the year 1903, as against 164 in 1902, 230 in 1901, 179 in 1900, 153 in 1899, 146 in 1898, 121 in 1897, and 114 in 1896.

The following is a brief summary of the causes to which the cases were attributed :—

Facial, after colds .....	110
„ from injuries .....	13
From wound in leg .....	10
„ „ on head .....	6
„ „ on arm.....	4
„ „ on breast .....	1
In body from vaccination.....	1
„ „ „ colds .....	2
„ leg „ „ .....	12
„ feet „ „ .....	1
„ head „ „ .....	1
	<hr/>
	161

There appears to be very little advantage from the notification of this disease, as nothing of a preventive nature can be accomplished by the Health Department.

### MEASLES.

There were 131 deaths from measles during the year, giving a death rate of 57 per 100,000 living. This is less than the number for last year, which was 68; the numbers for the preceding five years being 1897, 222; 1898, 46; 1899, 97; 1900, 57; and 1901, 51.

An arrangement is in existence with the officials of the Educational Committee, who advise the department of every case of this disease coming to their notice. The

cases are then visited, and the parents advised as to the precautions to be taken.

Leaflets are issued and distributed by the Health Visitors pointing out the dangerous character of the disease, and advising as to the precautions to be taken to prevent its spread.

WHOOPING COUGH.

There were 96 deaths from whooping cough during the year, 92 of which occurred among children under five years of age. The death rate for the Borough was 42 per 100,000 persons living, as compared with 52 for 1902, and 58 the average for the past five years. The death rate for England and Wales was 27 per 100,000, and the average for the 33 great towns was 30.

In Regent Road District there were 47 deaths, 12 in Greengate, 21 in Pendleton, and 16 in Broughton.

DEATHS FROM WHOOPING COUGH IN THE YEAR 1903.

QUARTERS.	AT ALL AGES.					UNDER FIVE YEARS.				
	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.	Borough	Regent Road.	Greengate.	Pendleton.	Broughton.
1st. ....	24	12	4	6	2	23	12	4	5	2
2nd. ....	46	20	5	6	9	38	19	5	6	8
3rd. ....	12	2	1	5	4	12	2	1	5	4
4th. ....	20	13	2	4	1	19	12	2	4	1
Year .....	96	47	12	21	16	92	45	12	20	15



### DIARRHŒA.

The year has been remarkable for the coldness of the summer, the temperature in the shade only reaching on one day during the year. The 4-foot underground thermometer never rose above 57·9, which was reached on July 22nd. As might be expected under these circumstances, the diarrhœa rate for the year is exceedingly low, being 0·99 per 1,000 living, as compared with 0·63 last year, 1·86 in 1901, 1·45 in 1900, 2·09 in 1899, and 2·31 in 1898. In fact, it is one of the lowest diarrhœa rates recorded in Salford. This appears to show that further influences beyond the weather are at work in reducing the fatality of this disease in the Borough, and there can be no doubt that the substitution of water-closets for pails and privies, which has been rapidly progressing during the year, and the greater efforts which have been made to keep ashpits, streets, and back passages cleaner, are having their effect on the health of the population.

### TUBERCULOSIS.

During the year there were 566 deaths from phthisis and other tubercular diseases.

In every case of death from phthisis the house is visited, and consent to thorough disinfection is requested. Disinfection is then carried out free of charge. Leaflets of precautions to be taken have been supplied to all the medical men with a request that they would give them to their patients, and the lady visitors have visited the houses of the sick, and also given instructions as to the

best methods of preventing the disease spreading.

To assist in the diagnosis of difficult cases the Committee have also arranged for the examination of specimens of sputum, &c., free of charge to the medical practitioners.

There were 43 specimens examined during the year.

### EPIDEMIC INFLUENZA.

Thirty-six deaths were returned as directly due to this cause. The Broughton District appears to have suffered most, 19 deaths being reported from that district, 8 from Pendleton, 3 from Greengate, and 4 from Regent Road.

EPIDEMIC INFLUENZA MORTALITY, 1903.

DISTRICT.	Total Deaths	0-5 years.	5-15 years.	15-25 years.	25-65 years.	65 years and upwards
Regent Road.....	4	...	...	1	3	...
Greengate .....	5	...	...	..	4	1
Pendleton .....	8	3	1	...	...	...
Broughton.....	19	2	...	2	12	3
<b>Borough .....</b>	<b>36</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>23</b>	<b>4</b>

### MEASURES TAKEN TO PREVENT THE SPREAD OF INFECTIOUS DISEASE.

**Isolation.**—Out of the total, 1,600 cases of infectious disease notified during the year, 1,117, or 70 per cent.

were removed to the Ladywell Sanatorinm, and there isolated.

**Disinfection.**—All infected bedding has been stoved in the steam disinfecter.

During the year 30 schools were disinfected in consequence of the prevalence of typhus, measles, scarlet fever, and diphtheria.

**Bacteriology.**—468 specimens in suspected cases of enteric fever, diphtheria, and phthisis have been sent to Professor Delepine, of the Owens College, for examination, and the following is the result of the work done during the year 1903 :—

**Enteric Fever.**—180 examinations made, positive reactions obtained 82, or 45·5 per cent. of the whole.

**Diphtheria.** — 245 examinations made, and the specific bacilli were found in 102 cases, or 41·6 per cent. of the whole.

**Phthisis.**—43 tests were made, and tubercle bacilli were found in 16 cases, or 37·2 per cent. of the whole.

In December the Health Committee decided to abolish the fee of half a crown paid to medical practitioners for taking specimens for bacteriological examination from cases of diphtheria and enteric fever, except in those instances where they may be specially desired to do so by the Medical Officer of Health.



PART III.

WORK OF THE HEALTH DEPARTMENT.



## PART III.

WORK OF THE HEALTH DEPARTMENT.

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The staff consists of a Veterinary Surgeon and 15 Inspectors, including one Female Inspector. There are also Female Visitors working jointly with this Department and the Ladies' Health Society.

The Medical Officer having been appointed Medical Officer to the Education Committee, an Assistant Medical Officer was appointed to assist him generally with his duties.

**Systematic Inspection and Abatement of Nuisances.**—The systematic inspection of the Borough was conducted during the year 1903, on the same lines as in previous years, and with satisfactory results. The result of the inspections may be gathered from a perusal of the "Register of Work Done," which is to be found at the end of this section of the report. It shows that the number of complaints received at the office of the Department was 2,170, as compared with 1,858 received in 1902; also that 18,946 dwelling-houses were inspected during the year, and that 59 cases of overcrowding were abated. 1,332 house-drains were repaired, 2,122 were reconstructed, 219 properly trapped, 6 waste pipes disconnected from drains, and also 174 rain-water pipes. In respect to water-closets, 2,600 new ones were provided, and five were properly ventilated, 39 soil pipes were also ventilated. 226 houses were closed as unfit for human habitation. 287 seizures were made of meat unfit for food,



which included animals that had died in transit to the market, and 825 samples of food were purchased for the purpose of analysis.

## HOUSING OF THE WORKING CLASSES.

The Health Committee during the year have completed the scheme for building 252 houses on the Seaford Road Site, which has been approved by the Local Government Board, and the contract for the building has been let, the price for all the work—except the paving of the new streets—being £38,310.

A further scheme has been arranged for building 76 tenements of three rooms each in two-storey blocks, to be erected in Springfield Lane, Greengate. This scheme is now awaiting the consent of the Local Government Board.

The buildings on the Barracks' Site have been almost completed during the year, and all the cottages are now occupied.

The particulars, including the financial statement for the year for each of the schemes already completed, are given below.

**Barracks' Site.**—319 houses are now let on this site.

RECEIPTS. 1903.				EXPENDITURE. 1903.			
	£	s.	d.		£	s.	d.
Weekly Rents .....	5,793	1	1	General Expenditure..	2,180	0	3
Balance .....	707	15	2	Interest and Sinking			
				Fund .....	4,320	16	0
	<u>£6,500</u>	<u>16</u>	<u>3</u>		<u>£6,500</u>	<u>16</u>	<u>3</u>

**Artizans' Dwellings.**—These tenements, 69 in number, situated between King Street and Queen Street, Salford, have maintained their popularity. Although there have been many removals during the year, the tenements have again been occupied without delay, and very little loss of rent has been caused in this particular.

RECEIPTS. 1903.				EXPENDITURE. 1903.			
	£	s.	d.		£	s.	d.
Weekly Rents .....	791	18	5	General Expenditure...	467	16	6
Balance .....	177	8	8	Interest and Sinking			
				Fund on Building ...	501	10	7
	<u>£969</u>	<u>7</u>	<u>1</u>		<u>£969</u>	<u>7</u>	<u>1</u>

**Artizans' Cottages.**—These cottages, 36 in number, are situated between King Street and Queen Street, Salford, and have been almost constantly occupied.

RECEIPTS. 1903.				EXPENDITURE. 1903.			
	£	s.	d.		£	s.	d.
Weekly Rents .....	583	1	0	General Expenditure ...	176	4	3
				Interest and Sinking			
				Fund on Buildings...	356	16	1
				Balance .....	50	0	8
	<u>£583</u>	<u>1</u>	<u>0</u>		<u>£583</u>	<u>1</u>	<u>0</u>

**Model Lodging House, Bloom Street, Salford.**—The Model Lodging House has been conducted during the past year in a very satisfactory manner by the Manager, Mr. A. W. Bell.

The increase in the charges to 6d. per bed per night, or 2s. 9d. per week, which I reported last year, has been maintained, and there has been no falling off in the popularity of the Institution.

RECEIPTS.				1903.			
	£	s.	d.		£	s.	d.
Rents .....	2,196	13	0				
Sundry Receipts .....	59	14	2				
Balance .....	264	18	1				
	<hr/>						
	£2521	5	3				
	<hr/>						

GENERAL EXPENDITURE.				1903.			
	£	s.	d.		£	s.	d.
General Expenditure..	1,805	17	10				
Sinking Fund Instal-							
ment and Interest...	715	7	5				
	<hr/>						
	£2521	5	3				
	<hr/>						

**Common Lodging Houses.**—There were 36 Common Lodging Houses on the register at the end of the year, namely, 9 in the Regent Road District, 22 in Greengate District, and 5 in Pendleton District. These houses contain 228 rooms, and accommodate 1,457 lodgers. 3,619 inspections have been made, 3,563 in the day time, and 56 at night.

#### COMMON LODGING HOUSES IN GREENGATE FOR THE YEAR 1903.

Number of Lodging-houses.....	22
Number of Beds .....	1,030
Average Number of Occupants .....	801
Number of Deaths .....	36
Death Rate per 1,000.....	44'9

**Seamen's Lodging Houses.**—Owing to the development of Salford as a port, there has been a great increase in the number of seamen's lodgings in the Borough, and consequently in the number of houses kept for the special purpose of receiving them. With a view of regulating them, Bye-laws under the Merchant Shipping Act were made and approved by the Board of Trade.



Under these Bye-laws, 14 applications for licenses were made during the year, but in only four instances were the premises found to comply with the regulations.

These four houses contain 19 rooms and 49 beds, accommodating 49 seamen.

Fifty-five visits were made during the year under the regulations.

Great difficulty has been experienced, owing to the fact that the Bye-laws do not impose any penalties for unlicensed persons keeping seamen's lodging houses, and the Council are now applying to the Board of Trade, under Sub-section 5 of Section 214, of the Merchant Shipping Act, 1894, for an order making the licensing of seamen's lodging houses compulsory.

Unfortunately the property in the neighbourhood of the docks is all of the small cottage type, and is unsuitable for use as seamen's lodging houses, but there appears to be a greater disposition to supply proper accommodation than there was.

**Factory and Workshops Acts.**—Detailed information as to the work done under these Acts is given in the tables which are arranged in the form suggested by the Chief Inspector of Factories.

Total number of workshops in the district as per Register, 959, including —

Tenement workshops .....	9
Domestic workshops .....	126
Retail bakehouses .....	222
Laundries .....	22
Other workshops.....	580

Note as to the chief workshop industries in the district.—No special industries. Shoemakers and repairers, 111. Dress and mantle makers, 107.

SANITATION.			
	Workshops.	Domestic Factories and Domestic Workshops.	Workplaces.
<b>Cleanliness.</b>			
No. of Notices served under Public Health Acts .....	...	I	I
No. of Notices to cleanse under Sec- tion 2.....	53	Notices under Sec- tion 9I, P. H. Act. Abated	Notice under Sec- tion 9I, P. H. Act. Abated
Legal proceedings ...	Nil Nuisance abated	...	...
<b>Air Space.</b>			
No. of Notices to abate overcrowding .....	2	...	...
No. of Notices to affix card, Section 3 (4)...	...	...	...
Legal proceedings ...	Nil Nuisance abated	...	...
<b>Ventilation.</b>			
No. of Notices under Public Health Act...	I	...	...
Legal proceedings ...	Nil Nuisance abated	...	...
<b>Means of Ventila- tion.</b>			
Action under new powers of Section 7	Nil		
<b>Drainage of Wet Floors.</b>	Nil		
Action under Sec. 8. Notices served under Public Health Act, sanitary defects .....	I7 Nuisance abated		

A serious case of poisoning by “producer gas” occurred early in May. A factory, in which about 150 girls were employed, was supplied with motive power from two gas engines, and on the 6th of May “producer gas” was substituted for coal gas for driving these engines. The blow-through pipe from the producer gas main was carried through the factory to the roof.

On the morning of the 7th May work commenced as usual at 6 a.m., and about 7-30 it was noticed that several of the girls in different parts of the buildings began to feel ill or fainted, and those who could returned home.

An examination showed that the blow-through pipe mentioned above was defective, especially in the top floor where the illness of the operatives was first noticed and was the most severe. Fortunately no fatalities resulted and the affected operatives quite recovered in the course of two or three days.

I was informed by the manufacturers of the gas plant that the average composition of the gas is—

Carbon non-oxide ...	19	per cent.
Hydrogen .....	20	„
Marsh gas .....	1	„
Carbon di-oxide ...	6	„
Nitrogen.....	54	„



### Additional Sanitation for Retail Bakehouses.

Secs. 97 to 102

Number of such premises in the district, **222**.

Note as to their general sanitary condition—Ground floor bakehouses, good ;  
52 underground being dealt with.

Action taken as to retail bakehouses during 1903, **1**.

	No. of defects found.	Notices served.	Legal proceedings.	Defects remedied.	Remarks.
As to closets, &c., Sec. 97 .....	...	...	...	...	
As to water cisterns, Sec. 97 ...	...	...	...	...	
As to drain openings, Sec. 97...	...	...	...	...	
As to limewashing, &c., Sec. 99	3	3	...	3	
As to sleeping places, Sec. 100	...	...	...	...	

Any proceedings under Section 98 as to retail bakehouses sanitarily unfit—  
One, by arrangement with occupier. Result, plans for alterations submitted.

(A) Underground bakehouses.

Number of such premises in district, **52**.

Number certified by District Council under Sec. 101 (2), nil.

A thorough inspection was made, with the result that at the end of the year five have been closed, 38 will be discontinued in a very short time, and 14 are making alterations, which will be of such a character, as will justify the Health Committee in granting certificates under the Factory and Workshops Act.

### Sanitary Conveniences.

(Only to be reported on in places where Sec. 22 of the Public Health Act Amendment Act is in force).

Date of adoption of Sec. 22 of the Public Health Act Amendment Act, 1890  
 Number of defects discovered thereunder in factories or workshops during  
 1903, **22**.

(A) Closets insufficient or unsuitable, **14**.

(B) Closets not separate for sexes, **2**.

Number of Notices issued under the section during 1903, **22**.

### Home Work. Secs. 107 to 115.

Total number of lists of outworkers received during 1903, **11**; representing  
 employers, 290; contractors, 1; outworkers, 698.

### Classification of Lists Received.

	Number of Lists Received.			Total number of such Employers or Con- tractors.	Total number of such Out- workers in the District.
	Up to Feb 1st, 1903.	To Aug. 1st, 1903.	Total to Dec. 31st, 1903.		
<b>Outwork in connec- tion with—</b>					
Wearing apparel .....	5	5	10	290	690
Lace, lace curtains, &c. ....	...	...	...	..	...
Cabinet making, &c. ....	...	...	1	1	8
Electroplate .....	...	...	...	...	...
File making .....	...	...	...	...	...
Fur pulling .....	...	...	...	...	...
Cables and chains .....	...	...	...	...	...
Anchors and grapnels...	...	...	...	...	...
Cart gear, &c. ....	...	...	...	...	...
Locks, keys, &c. ....	...	...	...	...	...
Total.....	5	5	11	291	698

Outworkers' premises—Number inspected, 522. Number found unwholesome, 1.  
 Action as to unwholesome premises.—House altered.  
 Any prohibition as to infected houses (Sec. 110), one.

**(B) General.**

Number and nature of sanitary defects reported to the authority by H.M. Inspectors during 1903, 18.

Water-closet accommodation, deficient. Separation of sexes and limewashing. Action taken in consequence—Notices served.

Number of infringements reported by Sanitary Authority to H.M. Inspector (Sec. 133), 20.

**Tuberculosis in Milk.**—Under the powers obtained in the Salford Improvement Act of 1899, 55 samples of milk have been taken in the course of delivery and submitted to Professor Delepine of the Owens College. Of these 4 or 7·3 per cent. were found to cause tuberculosis.

In connection with these four cases Mr. Fordham visited four farms and examined 80 cows. At three of the four farms he found one cow had been sold and at one farm two cows had been sold, between the taking of the first sample and Mr. Fordham's visit to the farm after Professor Delepine's certificate.

**SAMPLES OF MILK PROCURED FOR BACTERIOLOGICAL  
EXAMINATION DURING 1903.**

Samples taken by Inspector Crossley ... ..	55
Number found to be tuberculous... ..	4
„ „ not to be tuberculous ... ..	51
Farms visited <b>outside Salford</b> by Mr. Fordham ... ..	4
Samples taken from suspected cows by Mr. Fordham ..	4



Number found to be tuberculous...	...	...	...	...	None
„ „ non-tuberculous	...	...	...	...	4
Cows which died or were destroyed after Mr. Fordham's visit	None				
Cows destroyed between taking of samples by Inspector Crossley and visit to farm by Inspector Fordham	. None				
Cows sold do. do. ...	...	...	...	...	5
Farms and shippens visited <b>in Salford</b> by Mr. Fordham...	2				
Samples taken from suspected cows by Mr. Fordham	... 2				
Number found to be tuberculous	...	...	...	...	None
„ „ non-tuberculous	...	...	...	...	2
Tuberculous cow condemned and destroyed	...	...	...	None	
No. of cows in dairies <b>outside</b> Salford represented	80				
„ „ <b>inside</b> „ „	54				

**Shop Hours Act.**—There were 567 shops on the register in which young persons under 18 years of age were employed. This number is a decrease of 30 for the year 1903; and the number of young persons employed therein shows a decrease of 165 as compared with the year 1902.

#### MIDWIVES ACT.

This Act came into force in 1903, and midwives practising in the Borough have been visited and are now all registered. They have been carefully instructed as to their duties under this Act of Parliament, and I propose to deal fully with this matter in my next report.

**Smoke Nuisance.**—During the year 1903, 1,903

smoke observations have been made, as against 2,053 in the year 1902, and 2,018 in the year 1901.

108 stokers and others were cautioned by the Inspector for negligence in firing the furnaces under their charge; at the same time, 61 firms were reported to, and dealt with by the Health Committee.

TABLE SHOWING THE NUMBER OF HALF-HOURLY OBSERVATIONS  
TAKEN DURING THE YEAR 1903.

Minutes of Black Smoke emitted in half-an-hour.	No. of Observations taken.	Percentage to Total.
No Black Smoke .....	514	27·0
One Minute .....	723	38·0
Two Minutes .....	512	26·9
Three Minutes .....	93	4·9
Over Three Minutes .....	61	3·2
Total Observations taken .....	1903	...

One large chimney has been erected and several chimneys have been raised during the year, particularly in connection with small Workshops and Bakehouses.

Particulars as to smoke nuisances caused by firms and firemen during the year 1903 and dealt with by the Health Committee.

15 firms were summoned and fined in the aggregate, £21 12s. 6d.

Three firms were proceeded against and the summonses were allowed to be withdrawn on payment of costs.

33 firemen were summoned and fined in the aggregate, £24 6s.

Six firemen were summoned, but it was found that the firms by whom these men were employed were responsible, so that the summonses against these men were withdrawn.

One firm was excused on the promise to make alterations and abate the nuisance.

**Diseases of Animals.**—The Borough has been free from Foot and Mouth Disease and Pleuro-Pneumonia during the year 1903.

There has been no outbreak of Swine Fever in the Borough during the year 1903.

No outbreak of Glanders or Farcy occurred during the year.

No case of Sheep Scab was reported.

No case of Anthrax occurred in the Borough during the year.

**Rabies.**—Two dogs were killed by the police suspected of Rabies, but in neither case was any trace of Rabies found.

**Parasitic Mange.**—In consequence of an outbreak of this disease being reported in November by Inspector



Fordham, application was made to the Board of Agriculture for an Order to enable the Corporation to deal with this disease, and such Order was granted and came into operation on February 3rd, 1903. Over 100 horses were reported during 1903, and the Order was complied with in each case.

**Slaughter Houses.**—There are 20 licensed slaughter-houses in use at the present time, against 21 at the end of 1902. The slaughter-houses are kept under inspection by the Veterinary Inspector, assisted by the District Inspectors, and have been kept in good condition during the year.

**Shippons.**—There are 12 shippons in use at present, being two less than in the previous year. They are regularly inspected, and generally kept in a sanitary condition.

**Pig Keeping.**—Numerous complaints have been received from time to time at Warren's Farm in Broughton, and in July a resolution of the Council was passed under the thirty-seventh Section of the Act of 1867, requiring the tenant to discontinue the keeping of pigs. This order was complied with.

**Offensive Trades.**—The following is a list of these trades in the Borough.

Nature of Trades.	No. of Trades in the Districts and Borough.					Discon- tinued. Newly Regis- tered.	
	Regent Road.	Green- gate.	Pendle- ton.	Brough- ton.	Borough.		
Tripe Dressing ..	4	2	3	0	9	...	...
Soap Works ...	2	1	2	0	5	...	...
Oil and Tallow...	0	3	1	1	5	...	...
Tanneries .....	0	1	0	0	1	1	...
Varnish and Tar.	2	4	1	0	7	...	...
Skin Mat Makers	0	0	1	0	1	2	...
Paper Works ...	2	0	0	1	3	...	...
Floor Cloth.....	0	2	0	0	2	...	...
Chemical.....	3	1	2	0	6	...	...
Rubber .....	1	2	2	0	5	...	...
Rop Cleaning .	2	1	0	0	3	...	...
Telegraph Cable	0	2	0	0	2	...	...
Candle Makers..	1	0	0	0	1	...	...
<b>Totals</b> .....	<b>17</b>	<b>19</b>	<b>12</b>	<b>2</b>	<b>50</b>	<b>3</b>	<b>...</b>

MONTHLY SEIZURES OF UNWHOLESOME MEAT.

Month.	No. of Seizures.	Weight.			
		Tons.	Cwts.	Qrs.	Lbs.
1903.					
January .....	24	1	17	2	19
February .....	26	1	13	3	16
March .....	27	8	9	0	22
April .....	39	3	2	0	3
May .....	30	2	15	3	27
June .....	19	1	5	3	0
July .....	20	1	14	3	2
August .....	18	1	17	3	20
September .....	33	2	13	2	17
October .....	14	...	16	1	0
November .....	13	...	16	0	0
December .....	24	1	...	3	27
Totals.....	287	28	4	0	13

	Tons.	Cwts.	Qrs.	Lbs.
Carcases of animals killed in transit .....	17 ...	9 ...	0 ...	6
Carcases given up by butchers .....	7 ...	13 ...	2 ...	15
Seizures of animal in stable .....	0 ...	4 ...	3 ...	16
Seizures of animals exposed in market .....	0 ...	19 ...	2 ...	23
Seizures of unwholesome meat in shops.....	0 ...	1 ...	1 ...	2
Surrendered fish, eggs, tripe, cocoanuts, and barm .....	1 ...	15 ...	2 ...	7
	<hr/> 28	<hr/> 4	<hr/> 0	<hr/> 13



Table showing the kind of food seized, and its weight :—

	No. of Seizures.	Weight.			
		Tons.	Cwts.	Qrs.	Lbs.
Mutton .....	189	8	3	2	26
Beef .....	43	15	14	1	11
Veal .....	33	1	14	3	7
Pork .....	10	0	15	0	14
Fish .....	6	1	4	3	16
Tripe .....	2	0	7	2	0
Pickles .....	0	0	0	0	0
Eggs .....	1	0	0	3	0
Goat .....	1	0	0	2	4
Cocoanut .....	1	0	1	0	0
Barm .....	1	0	1	1	19
<b>Totals .....</b>	<b>287</b>	<b>28</b>	<b>4</b>	<b>0</b>	<b>13</b>

**DRAINAGE WORK.**

Number of tests made.....	918
„ applications .....	72
„ houses affected by the tests.....	2018
„ notices and reports issued ... ..	657
„ notices and reports complied with .....	627
„ drain inlets opened and cleared .....	523
„ houses examined after diphtheria and enteric fever .....	301
„ Drains found defective after examination ...	689

## INSANITARY CONDITIONS FOUND.

Defects.	No. of Cases.
Drains wholly or partly choked .....	361
Drains defectively constructed .....	689
Gully traps badly laid .....	100
Drains defectively trapped .....	113
Waste pipes defectively trapped or connected to drains...	101
Downspouts connected to drains .....	216
Soil pipes with leaking joints or improperly ventilated ...	41
Defective water-closets.....	98

RE-CONSTRUCTION OF DRAINS AND THE CONSTRUCTION  
OF NEW DRAINS.

Number of tests applied .....	4369
„ houses affected .....	4695
„ passage drains .....	145

**Canal Boats.**—During the year 1903, 206 canal boats were inspected, as against 42 in the year 1902, and 588 in the year 1901.

Of the boats inspected, 17 were found to contravene the Acts and Regulations.

The inspected boats contained 305 men, 112 women, and 58 children under 12 years of age.

The following is a list of defects found in the inspected boats :—

Boats working without certificates .....	3
Boats of which Numbers or Names were defective.....	1
Cabins dirty .....	...
Dilapidated .....	2
Water vessels defective.....	5
Painting and repairing .....	5
Number of notices served on Owners... ..	11

**Conversion of Privy Middens and Pail Closets to Waterclosets.**—This work has been steadily progressing

during the year as shewn in Table 35. It is very unfortunate that the deficiency in the water supply of the Regent Road district prevents this work being carried out in that area, especially as owing to its proximity to the docks and the large number of very foul privy middens, its condition becomes increasingly dangerous.

Objection was taken to the conversion in the Seedley district on the ground that the sewers were inadequate. The Borough Engineer reported at length on this matter to the effect that, in his opinion, the sewers and the Sewage Works were quite capable of dealing with the additional sewage from waterclosets, if the whole of the closets in the Borough were waterclosets.

**Sanitary Conveniences.**—There are 17 conveniences in the Borough, under the control of the Health Committee, situated :—

Trinity Market, Salford.  
Liverpool Street, Salford.  
Broughton Lane, Broughton.  
Trafford Road, Salford.  
Pack Horse, Bolton Road, Pendleton.  
Frederick Street, Pendleton.  
Whit Lane, Pendleton.  
Windsor Bridge, Salford.  
Bleacher Street, Salford.  
Crescent, Salford.  
Stevenson Street, Salford.  
The Cliff, Broughton.  
Park Lane, Broughton.  
Broad Street, Pendleton.  
Greengate Arch, Salford.  
Everard Street, Salford.

The urinal in Broughton Lane has been renewed during the year, and a new one provided in Eccles New Road, Weaste, adjoining the Free Library.





TABLES.

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PART I.

MORTALITY STATISTICS.





## STATISTICAL SUMMARY, 1903.

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**Population.**—Estimated to the { **Males** ..... 109,460 }  
middle of the year ..... { **Females** ... 117,020 } **Total** ..... 226,480

**Marriages** ..... 2,018

**Annual Rate of Persons Married per 1,000 of the Population.** 17·8

**Births** ..... { **Males** ..... 3,700 }  
..... { **Females** ... 3,584 } **Total** ..... 7,284

**Annual Rate of Births per 1,000 of the Population**..... 32·2

**Deaths under One Year of Age per 1,000 Births**..... 168

**Deaths** ..... { **Males** ..... 2,276 }  
..... { **Females** ... 2,049 } **Total** ..... 4,325

**Annual Rate of Mortality** { **Males** ..... 20·8 }  
per 1,000 ..... { **Females** ... 17·5 } **Total** ..... 19·1

**Annual Rate of Mortality per 1,000 from the seven principal Zymotic Diseases** ..... 2·8

**Excess of Registered Births over Deaths** ..... 2,959

**Estimated Annual Increase of Population** ..... 2,473

**Density.**—The mean density of the Borough is equal to 43·5 persons per acre :—in Regent Road, 74·8 ; Greengate, 85·6 ; Pendleton, 28·8 ; Broughton, 36·0.

**Area.**—The Municipal Borough of Salford comprises the Townships of Salford (divided for statistical purposes into the Regent Road and Greengate Districts), Pendleton, and Broughton, and has a total area of 5,202 acres :—in Salford, 1,354 acres (\*Regent Road, 964 ; \*Greengate, 390) ; Pendleton, 2,430 ; Broughton, 1,418.

**Elevation.**—The mean elevation of the Borough is 140 feet above sea-level, and varies between 85 feet and 250 feet.

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\* The areas of the Regent Road and Greengate Districts have been altered in consequence of the alteration made by the Registrar-General in the two registration districts.

TABLE 1.  
FOR WHOLE DISTRICT.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		DEATHS UNDER ONE YEAR OF AGE.		DEATHS AT ALL AGES. TOTAL.		Deaths in Public Institu- tions.	Deaths of Non- Residents registered in District.	Deaths of Residents registered beyond District.	DEATHS AT ALL AGE . NETT.	
		Number. 3.	*Rate. 4.	Number. 5.	Rate per 1,000 Births registered. 6.	Number. 7.	*Rate. 8.				Number. 12.	*Rate. 13.
1893 .....	203,015	7047	34.7	1494	211	4848	23.9	691	32	79	4895	24.1
1894 .....	205,220	7041	34.3	1222	174	4284	20.9	720	45	72	4311	21.1
1895 .....	207,449	7456	35.9	1711	229	5312	25.6	823	60	66	5318	25.6
1896 .....	209,703	7470	35.6	1496	200	4836	23.1	769	49	63	4850	23.1
1897 .....	211,981	7454	35.2	1633	219	5064	23.9	772	55	61	5070	23.9
1898 .....	214,284	7475	34.9	1595	213	4880	22.8	829	76	77	4881	22.8
1899 .....	216,612	7378	34.1	1556	211	5205	24.0	892	90	72	5187	23.9
1900 .....	218,965	7299	33.3	1520	208	5588	25.5	1104	104	58	5542	25.3
1901 .....	221,587	6457	29.1	1324	205	4872	22.0	1022	126	56	4802	21.7
1902 .....	224,007	7699	33.7	1211	157	4449	19.5	935	136	62	4375	19.2
Averages for Years 1893—1902.....		7278	34.1	1476	203	4934	23.1	856	77	67	4923	23.1
1903 .....		7284	32.2	1226	168	4329	19.1	861	90	86	4325	19.1

\* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term “Non-Residents” is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term “Residents” is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

Area of district in acres (exclusive of area covered by water) ... 5,202

Total Population at All Ages	..	..	..	..	..	220,957
Number of Inhabited Houses	..	..	..	..	..	44,001
Average Number of Persons per house	..	..	..	..	..	5.02

At Census of 1901.



TABLE 2.

NAMES OF LOCALITIES.	1.—BOROUGH.				2.—REGENT ROAD.				3.—GREENGATE.				4.—PENDLETON.				5.—BROUGHTON.			
	Popula- tion Esti- mated to middle of each Year. a.	Births Regis- tered. b.	Deaths at All Ages. c.	Deaths under 1 year. d.	Popula- tion Esti- mated to middle of each Year. a.	Births Regis- tered. b.	Deaths at All Ages. c.	Deaths under 1 year. d.	Popula- tion Esti- mated to middle of each Year. a.	Births Regis- tered. b.	Deaths at All Ages. c.	Deaths under 1 year. d.	Popula- tion Esti- mated to middle of each Year. a.	Births Regis- tered. b.	Deaths at All Ages. c.	Deaths under 1 year. d.				
YEAR.																				
1893.....	203,015	7047	4895	1494	79,541	2882	2026	625	29,571	1155	928	283	53,769	1817	1232	709	223			
1894.....	205,220	7041	4311	1222	79,684	2826	1827	562	29,077	1178	809	238	55,272	1885	1022	653	162			
1895.....	207,449	7456	5318	1711	79,783	3104	2286	786	28,590	1194	967	295	56,810	1895	1311	754	210			
1896.....	209,703	7470	4850	1496	71,879	2710	1793	575	36,055	1454	1119	311	58,394	2078	1151	787	230			
1897.....	211,981	7454	5070	1633	71,866	2695	1840	606	35,580	1380	1177	368	60,023	2087	1306	747	220			
1898.....	214,284	7475	4881	1595	71,797	2640	1745	606	35,112	1332	1085	300	61,696	2176	1274	777	239			
1899.....	216,612	7378	5187	1556	71,669	2552	1904	634	34,650	1270	1062	265	63,417	2235	1357	864	261			
1890.....	218,965	7299	5542	1520	71,482	2436	1972	574	34,193	1273	1259	285	65,185	2266	1479	832	226			
1901.....	221,587	6457	4802	1324	71,435	2139	1713	510	33,743	981	971	241	67,023	2115	1324	794	171			
1902.....	224,007	7699	4375	1211	71,229	2538	1420	436	33,468	1285	966	229	68,935	2473	1254	735	183			
Averages of Years 1893—1902.)	213,282	7278	4923	1476	74,036	2652	1853	591	33,004	1250	1034	281	61,052	2103	1271	765	212			
1903.....	226,480	7284	4325	1226	72,121	2430	1588	478	33,415	1135	823	228	69,909	2359	1168	746	182			

NOTES.—(a.) The separate localities adopted for this table should be areas of which the populations are obtainable from the Census returns, such as wards, parishes, or groups of parishes, or registration sub-districts. Block 1 may, if desired, be used for the whole district; and blocks 2, 3, &c., for the several localities. In small districts without recognised divisions of known population, this table need not be filled up.

(b.) Deaths of residents occurring beyond the district are to be included in sub-columns c of this table, and those of non-residents registered in the district excluded. (See note on Table I. as to meaning of terms “resident” and “non-resident.”)

(c.) Deaths of residents occurring in public institutions are to be allotted to the respective localities, according to addresses of the deceased.



TABLE 3.

CAUSES OF, AND AGES AT, DEATH DURING THE YEAR 1903.

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN LOCALITIES (AT ALL AGES).					DEATHS IN PUBLIC INSTITUTIONS.
	All Ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.	
Small-pox .....	1	...	...	...	1	...	...	1	1	...	...	...	...
Measles .....	131	35	92	3	1	...	...	131	77	10	34	10	1
Scarlet Fever.....	57	2	39	16	...	...	...	57	20	8	20	5	62
Whooping Cough .....	96	41	51	4	...	...	...	96	47	12	21	16	2
Diphtheria and Mem- branous Croup.....	86	6	49	26	2	3	...	86	28	5	26	27	70
Croup .....	9	2	6	1	...	...	...	9	3	3	3	...	...
Fever { Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...	...
{ Enteric .....	48	...	2	5	8	33	...	48	19	8	14	7	41
{ Other Continued .....	1	...	...	...	...	1	...	1	...	1	...	...	...
Epidemic Influenza .....	36	4	1	1	3	23	4	36	4	5	8	19	...
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa (See notes at foot)	224	160	51	1	2	6	4	224	93	61	46	24	7
Enteritis (See notes at foot)	84	52	19	2	1	7	3	84	34	7	27	16	...
Puerperal Fever .....	7	...	...	...	1	6	...	7	2	...	2	3	3
Erysipelas .....	5	...	...	...	1	3	1	5	3	1	1	...	2
Other Septic Diseases .....	8	2	3	1	...	1	1	8	1	3	2	2	2
Phthisis .....	407	7	15	21	51	303	10	407	151	103	94	59	123
Other Tubercular Diseases.	159	59	60	25	3	10	2	159	56	37	37	29	19
Cancer, Malignant Disease.	148	...	...	...	3	117	28	148	49	21	48	30	25
Bronchitis .....	460	110	48	5	4	133	160	460	160	94	127	79	79
Pneumonia .....	418	96	112	19	14	144	33	418	150	86	115	67	66
Pleurisy .....	4	...	1	1	...	2	...	4	...	...	2	2	1
Other Diseases of Respira- tory Organs .....	19	2	8	...	3	6	...	19	9	2	3	5	5
Alcoholism .....	48	...	...	...	1	41	6	48	10	15	13	10	6
Cirrhosis of Liver.....													
Venereal Diseases.....	20	17	...	1	...	2	...	20	8	8	2	2	4
Premature Birth .....	168	168	...	...	...	...	...	168	56	24	59	29	1
Diseases and Accidents of Parturition .....	15	4	...	...	4	7	...	15	7	3	5	...	...
Heart Diseases .....	317	7	...	12	15	191	92	317	109	62	84	62	46
Accidents .....	119	17	25	10	3	52	12	119	41	24	38	16	54
Suicides .....	17	...	...	...	1	14	2	17	6	4	5	2	4
All other causes .....	1213	435	102	44	39	341	252	1213	444	216	332	221	238
All Causes.....	4325	1226	684	198	161	1446	610	4325	1588	823	1168	746	861

NOTES.—(a.) The deaths of residents occurring beyond the limits of the district are to be included in this table, and deaths of non-residents occurring in the district are to be excluded.

(b.) Deaths of residents occurring in public institutions are to be allotted to the respective localities according to the addresses of the deceased as given by the Registrars, and, in addition, to be classified under "Public Institutions."

(c.) Under the heading of "Diarrhœa" are to be included deaths certified as from diarrhœa, alone or in combination with some other cause of ill-defined nature; and also deaths certified as from

Epidemic Enteritis;

Zymotic Enteritis;

Epidemic Diarrhœa. Summer Diarrhœa;

Dysentery and Dysenteric Diarrhœa;

Choleraic Diarrhœa, Cholera, Cholera Nostras (in the absence of Asiatic Cholera).

Under the heading of "Enteritis" are to be included those certified as from Gastro-enteritis, Muco-enteritis, and Gastric Catarrh, unless from information obtained by enquiry from the certifying practitioner or otherwise, the Medical Officer of Health should have reason for including such deaths, especially those of infants, under the specific term "Diarrhœa."

Deaths from Diarrhœa secondary to some other well-defined disease should be included under the latter.

TABLE 4.

ESTIMATED POPULATION, AND ANNUAL RATES OF MORTALITY, AT ALL AGES, AND AT FIVE GROUPS OF AGES,  
IN THE FIFTY-THREE WEEKS OF THE YEAR 1903.

	PERSONS.			MALES.			FEMALES.		
	Estimated Population, 1903.	Deaths, 1903.	Rate per 1,000, 1903.	Estimated Population, 1903.	Deaths, 1903.	Rate per 1,000, 1903.	Estimated Population, 1903.	Deaths, 1903.	Rate per 1,000, 1903.
All Ages .....	226,480	4,325	19·1	109,460	2,276	20·8	117,020	2,049	17·5
Under 5 Years ...	27,246	1,910	70·1	13,502	1056	78·2	13,744	854	61·5
5 to 15    "    ...	47,911	198	4·1	23,836	89	3·7	24,075	109	4·5
15 to 25   "    ...	46,451	161	3·5	22,152	74	3·3	24,299	87	3·6
25 to 65   "    ...	98,281	1,446	14·7	47,325	786	16·6	50,956	660	13·0
65 and upwards...	6,591	610	92·5	2,645	271	102·5	3,946	339	85·9



POPULATION, DENSITY, ANNUAL RATES OF BIRTHS, MARRIAGES, AND  
REGISTRATION SUB-DISTRICTS, IN EACH

Year.	POPULATION (estimated to the middle of each year).					DENSITY (persons per acre).				
	Borough.	Regent Road.	Green- gate.	Pendleton.	Brough- ton.	Boro'.	Regent Road.	Green- gate.	Pendle- ton.	Brough- ton.
1861	102,920	33,756	37,519	21,649	9,996	19.9	31.7	142.8	9.0	7.0
1862*	104,975	34,928	37,458	22,139	10,450	20.3	32.7	142.4	9.2	7.3
1863	107,075	36,134	37,389	22,636	10,916	20.7	33.9	142.2	9.4	7.7
1864	109,262	37,374	37,313	23,182	11,393	21.1	35.0	141.8	9.6	8.0
1865	111,393	38,646	37,231	23,633	11,883	21.6	36.2	141.5	9.8	8.3
1861-65	107,125	36,167	37,382	22,648	10,928	20.7	33.9	142.1	9.4	7.7
1866	113,614	39,949	37,144	24,136	12,385	22.0	37.4	141.2	10.0	8.7
1867	115,885	41,294	37,045	24,644	12,902	22.4	38.7	140.8	10.2	9.1
1868*	118,198	42,674	36,941	25,152	13,434	22.9	40.0	140.4	10.4	9.4
1869	120,526	44,087	36,823	25,658	13,968	23.3	41.3	140.0	10.6	9.8
1870	122,965	45,551	36,704	26,177	14,533	23.8	42.7	139.4	10.8	10.2
1866-70	118,238	42,711	36,931	25,153	13,444	22.9	40.0	140.4	10.4	9.4
1871	125,890	47,195	36,517	26,920	15,258	24.3	44.2	138.8	11.1	10.7
1872	130,301	49,301	36,145	28,357	16,498	25.2	46.3	137.4	11.7	11.6
1873*	134,883	51,463	35,747	29,847	17,826	26.1	48.3	135.7	12.4	12.5
1874	139,618	53,670	35,319	31,386	19,243	27.0	50.3	134.3	13.0	13.5
1875	144,518	55,921	34,868	32,977	20,752	27.9	52.4	132.6	13.6	14.6
1871-75	135,042	51,510	35,719	29,897	17,916	26.1	48.3	135.8	12.4	12.6
1876	149,591	58,219	34,393	34,617	22,362	28.9	54.7	130.6	14.3	15.7
1877	154,842	60,561	33,898	36,308	24,075	29.9	56.8	128.8	15.0	16.9
1878	160,277	62,945	33,379	38,054	25,899	31.0	59.1	126.9	15.8	18.2
1879*	165,899	65,371	32,843	39,848	27,837	32.1	61.4	124.9	16.5	19.5
1880	171,727	67,839	32,291	41,697	29,900	33.2	63.6	122.8	17.2	21.0
1876-80	160,467	62,987	33,361	38,105	26,014	31.0	59.1	126.8	15.8	18.3
1881†	177,760	70,346	31,725	43,598	32,091	34.4	66.0	120.6	18.0	22.5
1882†	179,855	71,237	31,632	44,307	32,679	34.8	66.8	120.2	18.3	22.9
1883†	181,951	72,128	31,540	45,016	33,267	35.2	67.6	120.0	18.6	23.3
1884*†	184,047	73,019	31,447	45,725	33,856	35.6	68.5	119.6	18.9	23.7
1885†	186,142	73,911	31,353	46,434	34,444	36.0	69.4	119.2	19.2	24.2
1881-85†	181,951	72,128	31,540	45,016	33,267	35.2	67.6	120.0	18.6	23.3
1886†	188,238	74,802	31,261	47,143	35,032	36.4	70.4	118.8	19.5	24.6
1887†	190,334	75,693	31,168	47,852	35,621	36.8	71.0	118.5	19.8	25.0
1888†	192,429	76,584	31,075	48,561	36,209	37.2	71.9	118.2	20.1	25.4
1889†	194,525	77,476	30,982	49,270	36,797	37.6	72.8	117.8	20.4	25.8
1890*†	196,621	78,368	30,889	49,979	37,385	38.1	73.6	117.4	20.7	26.2
1886-90†	192,429	76,585	31,075	48,561	36,208	37.2	71.9	118.2	20.1	25.4
1891†	198,775	79,341	30,579	50,891	37,964	38.3	74.5	116.2	21.1	26.6
1892†	200,833	79,341	30,072	52,311	39,109	38.7	74.5	114.3	21.7	27.4
1893†	203,015	79,541	29,571	53,769	40,134	39.1	74.7	112.4	22.3	28.1
1894†	205,220	79,684	29,077	55,272	41,187	39.5	74.9	110.6	22.9	28.9
1895†	207,449	79,783	28,590	56,810	42,266	39.9	75.0	108.7	23.5	29.6
1891-95†	203,058	79,538	29,578	53,811	40,132	39.1	74.7	112.4	22.3	28.1
1896*†	209,703	71,879	36,055	58,394	43,375	40.4	75.3	92.5	24.1	30.4
1897†	211,981	71,866	35,580	60,023	44,512	40.8	75.3	91.2	24.8	31.2
1898†	214,284	71,797	35,112	61,696	45,679	41.3	75.2	90.0	25.4	32.0
1899†	216,612	71,669	34,650	63,417	46,876	41.7	75.1	88.9	26.2	32.9
1900†	218,965	71,482	34,193	65,185	48,105	42.2	74.9	87.7	26.9	33.7
1896-1900†	214,309	71,739	35,118	61,743	45,709	41.3	75.2	90.1	25.5	32.0
1901†	221,587	71,435	33,743	67,023	49,386	42.6	74.8	86.5	27.6	34.6
1902*†	224,007	71,229	33,468	68,935	50,375	43.1	73.9	85.8	28.4	35.5
1903†	226,480	72,121	33,415	69,909	51,035	43.5	74.8	85.6	28.8	36.0

\* In the years 1862, 1868, 1873, 1879, 1884, 1890, 1896, and 1902 the facts are those registered in

† Corrected after the results of the Census.

Calculations have been made on the Populations of the areas of the Regent Road and



DEATHS, IN THE COUNTY BOROUGH OF SALFORD, AND IN ITS FOUR OF THE FORTY-THREE YEARS, 1861-1903.

ANNUAL RATES PER 1,000 OF THE POPULATION.												
MARRIAGES.		BIRTHS.					DEATHS.					Year.
Registration Districts.		Boro'.	Regent Road.	Green-gate.	Pendle-ton.	Brough-ton.	Boro'.	Regent Road.	Green-gate.	Pendle-ton.	Brough-ton.	
11'9		39'7	40'0	43'9	38'0	26'9	24'6	27'8	26'1	21'8	13'8	1861
10'2		39'0	38'7	42'5	39'4	25'9	25'3	29'4	27'8	19'6	14'7	1862
11'7		38'0	37'9	42'0	37'0	26'9	26'0	28'3	29'1	22'5	15'0	1863
12'7		38'6	37'3	44'3	38'2	24'7	26'5	28'7	31'0	21'7	14'6	1864
12'9		37'8	37'3	42'8	36'2	26'4	29'1	32'3	32'8	25'2	14'8	1865
11'9		38'6	38'2	43'1	37'8	26'2	26'3	29'3	29'4	22'2	14'6	1861-65
13'4		37'9	38'5	42'8	35'6	25'9	28'8	32'2	33'9	23'0	13'6	1866
14'3		39'0	40'7	42'2	37'0	28'2	28'2	31'9	31'9	22'8	15'7	1867
13'3		39'3	38'5	43'5	40'4	27'9	30'5	34'3	33'0	28'7	14'9	1868
14'1		38'9	39'1	43'2	38'3	27'6	26'4	29'2	29'2	23'3	15'8	1869
14'1		39'6	41'7	43'1	36'3	30'3	25'8	30'4	27'3	21'3	15'3	1870
13'8		38'9	39'7	43'0	37'5	28'0	27'9	31'6	31'1	23'8	15'1	1866-70
14'6		40'7	43'6	44'2	39'4	26'2	30'3	34'9	32'4	27'2	16'2	1871
15'1		41'4	45'3	44'1	35'7	34'0	25'3	28'9	28'8	20'4	15'6	1872
14'3		41'5	43'7	43'0	40'5	34'1	28'3	32'2	30'1	26'6	16'7	1873
16'2		42'1	45'9	40'9	37'3	41'8	28'2	32'6	29'2	24'9	19'5	1874
17'5		44'4	48'9	41'0	40'9	43'5	29'5	34'8	32'0	23'7	20'6	1875
15'5		42'0	45'5	42'6	38'8	35'9	28'3	32'7	30'5	24'6	17'7	1871-75
20'5		45'5	47'7	43'3	44'1	45'3	29'5	34'5	30'2	24'9	22'4	1876
19'6		44'4	47'0	40'7	43'1	44'7	26'3	31'8	26'3	21'9	19'6	1877
17'9		44'7	46'5	42'5	42'9	45'6	27'1	29'8	28'8	23'6	23'2	1878
15'2		43'0	45'5	40'9	42'5	40'0	26'7	27'5	31'6	24'7	21'5	1879
16'6		41'4	41'3	41'6	42'7	39'5	27'9	31'5	33'2	23'3	20'6	1880
18'0		43'8	45'6	41'8	43'1	43'0	27'5	31'0	30'0	23'7	21'7	1876-80
16'4		38'8	40'2	39'2	38'9	34'7	22'5	24'8	24'9	21'5	16'5	1881
16'9		39'7	41'7	40'6	38'6	35'5	23'7	25'6	28'9	21'0	17'9	1882
16'1		37'3	39'9	38'5	35'2	33'0	23'6	25'8	28'6	21'3	17'0	1883
16'1		38'8	40'3	41'3	36'5	36'5	24'4	26'3	28'4	22'4	19'1	1884
16'1		37'6	40'2	36'7	36'3	34'4	23'0	25'1	28'1	20'7	17'0	1885
16'3		38'4	40'5	39'2	37'1	34'8	23'4	25'5	27'8	21'4	17'5	1881-85
15'3		38'5	39'5	40'3	37'3	36'0	24'8	26'7	30'3	22'1	19'4	1886
15'4		36'6	38'7	37'0	35'5	32'9	25'5	26'2	33'0	24'0	19'4	1887
15'2		37'1	37'7	38'6	37'5	34'1	24'8	27'7	28'2	23'5	17'7	1888
16'7		35'9	37'0	38'1	35'5	32'4	25'1	27'4	28'9	23'6	18'9	1889
17'5		36'1	38'0	38'0	35'9	30'8	27'7	28'9	36'4	25'0	21'6	1890
16'0		36'8	38'2	38'4	36'3	33'2	25'7	27'5	31'5	23'8	19'5	1886-90
18'1		36'3	37'5	38'7	36'4	31'8	26'0	26'8	32'6	25'4	19'5	1891
16'7		35'8	36'6	40'6	36'1	30'0	24'6	26'0	33'8	22'8	17'5	1892
16'2		34'7	36'2	39'1	33'8	29'8	24'1	25'5	31'4	22'9	17'7	1893
17'1		34'3	35'5	40'5	34'1	28'0	21'1	23'0	27'8	18'5	15'9	1894
17'4		35'9	39'0	41'8	33'3	29'9	25'6	28'7	33'8	23'1	17'8	1895
17'1		35'4	37'0	40'1	34'7	29'9	24'3	26'0	31'9	22'5	17'5	1891-95
18'1		35'6	37'7	40'3	35'6	28'3	23'1	25'0	31'0	19'7	18'1	1896
18'6		35'2	37'5	38'8	34'8	29'0	23'9	25'6	33'1	21'8	16'8	1897
18'6		34'9	36'8	37'9	35'3	29'1	22'8	24'3	30'9	20'7	17'0	1898
18'7		34'1	35'6	36'6	35'2	28'2	23'9	26'6	30'6	21'4	18'4	1899
17'3		33'3	34'1	37'3	34'8	27'5	25'3	27'6	36'8	22'7	17'3	1900
18'3		34'6	36'3	38'2	35'1	28'4	23'8	25'8	32'5	21'3	17'5	1896-00
17'8		29'2	30'0	29'1	31'6	24'8	21'7	24'0	28'8	19'8	16'1	1901
18'6		33'7	35'0	37'7	35'2	27'3	19'2	19'6	28'3	17'9	14'3	1902
17'8		32'2	33'7	34'0	33'7	26'6	19'1	22'0	24'6	16'7	14'6	1903

53 instead of 52 weeks ; corrections have therefore been made in calculating the rates,

Greengate Districts as revised by the Registrar-General.

**TABLE 6.**

POPULATIONS, DEATHS, AND RATES, FOR THE COUNTY BOROUGH OF  
SALFORD FOR THE YEARS 1844 TO 1860.

Year.	Population.	Deaths.	Rate per 1000.
1844 .....	75414	1860	24·6
1845 .....	77144	1831	23·8
1846 .....	78874	2576	32·7
1847 .....	80604	2254	28·0
1848 .....	82334	2462	29·9
1849 .....	84064	2577	30·6
1850 .....	85794	2215	25·8
1851 .....	87523	2198	25·1
1852 .....	89304	2487	27·9
1853 ..... ..	91085	2461	27·0
1854 .....	92866	2650	28·5
1855 .....	94647	2527	26·7
1856 .....	96428	2290	23·7
1857 .....	98209	2517	25·6
1858 .....	99990	2986	29·8
1859 .....	101771	2484	24·6
1860 .....	103552	2476	24·0

**TABLE 7.**

BIRTHS IN THE COUNTY BOROUGH OF SALFORD AND IN ITS REGISTRATION  
SUB-DISTRICTS, DISTINGUISHING DEATHS OF LEGITIMATE AND  
ILLEGITIMATE INFANTS UNDER ONE YEAR OLD.

IN THE 52 WEEKS OF THE YEAR 1903.

	Births.		Percentage of Illegitimate Births to Total Births.	Deaths under One Year.		Proportion of Deaths under One Year per 1,000 Births.		
	Total.	Illegit.		Total.	Illegit.	Total.	Legit.	Illegit.
<b>Borough.....</b>	<b>7284</b>	<b>243</b>	<b>3'3</b>	<b>1226</b>	<b>81</b>	<b>168</b>	<b>163</b>	<b>333</b>
Regent Road District ...	2430	83	3'4	478	30	197	191	361
Greengate           ,,	1135	44	3'9	228	17	201	193	386
Pendleton           ,,	2359	74	3'1	338	21	143	139	284
Broughton           ,,	1360	42	3'1	182	13	134	128	310

CORRESPONDING DATA FOR THE TEN YEARS 1893-1902.

<b>Borough.....</b>	<b>73163</b>	<b>2529</b>	<b>3'5</b>	<b>15391</b>	<b>943</b>	<b>211</b>	<b>205</b>	<b>373</b>
Regent Road District ...	26769	852	3'2	6121	367	229	222	431
Greengate           ,,	12462	582	4'7	2945	216	236	230	371
Pendleton           ,,	21019	726	3'5	4102	235	195	191	324
Broughton           ,,	12913	369	2'9	2223	125	172	167	339



TABLE 8.

ANNUAL RATES PER 1,000 LIVING IN EACH OF THE REGISTRATION  
SUB-DISTRICTS OF SALFORD, IN THE 52 WEEKS OF THE  
YEAR 1903, AS COMPARED WITH THE ANNUAL  
RATES IN THE PREVIOUS YEAR.

REGISTRATION SUB-DISTRICTS.	ANNUAL RATE OF MORTALITY AT ALL AGES FROM											
	Births.		Deaths. All Causes.		Seven Principal Zymotic Diseases.		Phthisis.		Cancer.		Nervous Diseases.	
	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.
REGENT RD.	35'0	33'7	19'6	22'0	2'3	4'0	1'5	2'1	0'6	0'7	2'2	2'4
GREENGATE.	37'7	34'0	28'3	24'6	4'3	3'1	3'3	3'1	1'1	0'6	2'8	1'9
PENDLETON.	35'2	33'7	17'9	16'7	2'7	2'3	1'2	1'3	0'7	0'7	1'9	1'7
BROUGHTON.	27'3	26'6	14'3	14'6	1'9	1'8	1'4	1'2	0'7	0'6	1'3	1'5
BOROUGH ...	33'7	32'2	19'2	19'1	2'6	2'8	1'7	1'8	0'7	0'7	2'0	1'9

REGISTRATION SUB-DISTRICTS	AT ALL AGES FROM								Deaths under One Year per 1000 Births.	
	Heart Diseases.		Diarrhœa.		Acute Lung Diseases.		Tubercular Diseases.			
	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.	1902.	1903.
REGENT ROAD .....	1'7	1'5	0'8	1'3	4'2	4'3	2'2	2'9	172	197
GREENGATE .....	1'9	1'9	1'1	1'8	7'1	5'4	4'3	4'2	178	201
PENDLETON .....	1'2	1'2	0'5	0'7	3'8	3'5	1'9	1'9	147	143
BROUGHTON .....	1'1	1'2	0'2	0'5	3'2	2'9	1'9	1'7	130	134
BOROUGH .....	1'4	1'4	0'6	1'0	4'3	3'9	2'4	2'5	157	168

TABLE 9.

AVERAGE ANNUAL RATES OF MORTALITY PER 1,000 LIVING AT CERTAIN AGE-GROUPS IN THE YEAR 1903, AND AT ALL AGES IN THE QUINQUENNIAL PERIODS 1893 to 1897 AND 1898 to 1902.

CAUSES OF DEATH.	At all Ages.			Annual Death-Rates in the Year 1903, at the following Age-Groups, and from certain diseases.				
	Quinquennial Means.		Year.					
	1893 to 1897.	1898 to 1902.	1903.	Under 5 years.	5—15.	15—25.	25—65.	65—
All Causes .....	23·4	22·6	19·1	70·1	4·1	3·5	14·7	92·5
Small Pox.....	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
Measles .....	1·1	0·6	0·6	4·7	0·1	0·0	0·0	0·0
Scarlet Fever .....	0·4	0·3	0·3	1·5	0·3	0·0	0·0	0·0
Diphtheria and Membranous Croup .....	0·3	0·4	0·4	2·0	0·5	0·0	0·0	0·0
Whooping Cough .....	0·6	0·6	0·4	3·4	0·1	0·0	0·0	0·0
Continued Fever. {	Typhus .....		0·0	0·0	0·0	0·0	0·0	0·0
	Enteric .....		0·2	0·1	0·1	0·2	0·3	0·0
	Continued .....		0·0	0·0	0·0	0·0	0·0	0·0
Diarrhoea and Dysentery ...	1·7	1·7	1·0	7·7	0·0	0·0	0·1	0·6
Puerperal Fever .....	0·1	0·0	0·0	0·0	0·0	0·0	0·1	0·0
Phthisis .....	1·8	1·8	1·8	0·8	0·4	1·1	3·1	1·5
Other Tubercular Diseases...	1·2	0·8	0·7	4·4	0·5	0·1	0·1	0·3
Diseases of {	Brain .....		1·9	6·3	0·4	0·2	1·5	13·0
	Heart .....		1·4	0·3	0·3	0·3	1·9	14·0
	Lungs .....		3·9	13·5	0·5	0·4	2·8	29·3
	Digestive System .....		1·1	4·3	0·3	0·4	0·8	2·4
Other Diseases.....	5·9	6·1	5·4	21·2	0·6	0·7	4·0	31·4

**TABLE 10.**

CERTIFICATION OF THE CAUSES OF DEATH IN THE COUNTY BOROUGH OF  
SALFORD, AND ITS FOUR REGISTRATION SUB-DISTRICTS,  
IN THE YEAR 1903.

	Total Deaths.	Certified by		Not Certified.	Proportion per cent. of Total Deaths.		
		Registered Medical Practitioners.	Coroner.		Certified by		Not Certified.
					Registered Medical Practitioners.	Coroner.	
<b>Borough .....</b>	<b>4325</b>	<b>3983</b>	<b>317</b>	<b>25</b>	<b>92·1</b>	<b>7·3</b>	<b>0·6</b>
Regent Road District	1588	1473	109	6	92·7	6·9	0·4
Greengate .....	823	743	78	2	90·3	9·5	0·2
Pendleton .....	1168	1073	80	15	91·9	6·8	1·3
Broughton .....	746	694	50	2	93·0	6·7	0·3
CORRESPONDING DATA FOR THE TEN YEARS 1893-1902.							
<b>Borough .....</b>	<b>48599</b>	<b>44726</b>	<b>3065</b>	<b>808</b>	<b>92·0</b>	<b>6·3</b>	<b>1·7</b>
Regent Road District	18250	16927	988	335	92·8	5·4	1·8
Greengate .....	10122	8873	1074	175	87·7	10·6	1·7
Pendleton .....	12686	11797	673	216	93·0	5·3	1·7
Broughton .....	7541	7129	330	82	94·5	4·4	1·1



**TABLE 11.****Mortality from Special Diseases.—Diminution and Excess.—**

The following table shows the greater or less fatality of disease in 1903, as compared with their simple decennial average numbers in the Borough :—

Cause of Death.	Diminution in 1903.		Excess in 1903.
Small-pox .....	2	...	—
Measles .....	52	...	—
Scarlet fever .....	21	...	—
Fevers .....	25	...	—
Whooping cough.....	33	...	—
Diphtheria and Membranous Croup.....	—	...	17
Diarrhoeal diseases .....	132	...	—
Tuberculosis .....	33	...	—
Premature births .....	—	...	20
Brain and nervous diseases .....	22	...	—
Heart diseases.....	—	...	22
Respiratory diseases ... .	173	...	—
Urinary diseases .....	3	...	—
Atrophy and Marasmus .....	49	...	—
All other causes .....	138	...	—
	<hr/>		<hr/>
	683		59
	<hr/>		<hr/>
Balance of diminution .....	624		

TABLE 12.

DEATHS REGISTERED IN THE COUNTY BOROUGH OF SALFORD, FROM ALL CAUSES DURING THE YEAR 1903.

DISEASES.	AGES IN YEARS.																									Total.	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards
	AGES IN YEARS.																														
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 and upwards								
I. SPEC: FEBRILE, OR ZY- MOTIC DISEASES .....	336	209	68	49	38	75	33	32	45	60	70	51	49	45	60	39	29	11	8	5	2	...	...	1314	364	108	77	403	26		
II. PARASITIC DISEASES .....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
III. DIETIC DISEASES .....	180	18	3	...	...	1	...	...	1	...	1	...	4	4	4	...	...	2	...	1	...	...	...	...	219	...	...	...	...		
IV. CONSTITUTIONAL DISEASES .....	5	3	...	...	...	...	1	4	...	...	...	5	15	14	37	34	23	17	12	4	1	...	...	183	...	...	...	...	...		
V. DEVELOPMENTAL Dis: ...	211	6	...	...	...	...	...	...	...	...	...	...	...	...	...	1	5	15	29	27	10	7	5	...	316	...	...	...	...		
VI. LOCAL DISEASES.....	446	175	42	26	13	47	28	27	45	40	56	52	94	111	126	142	163	148	127	78	55	9	...	2050	256	75	72	784	417		
VII. DEATHS FROM VIOLENCE.	17	7	7	9	2	9	1	3	1	9	7	7	10	9	6	10	8	4	5	3	1	1	...	136	25	10	4	66	14		
VIII. DEATHS FROM ILL-DEFIN- ED & NOT SPECIFIED CAUSES.	28	3	1	5	...	2	1	...	1	...	4	2	8	5	7	7	7	4	12	3	2	2	...	104	9	3	1	40	23		
TOTALS.....	1226	421	121	89	53	134	64	66	95	111	142	117	180	188	240	233	235	201	193	121	71	19	5	4325	684	198	161	1446	610		
I.—Zymotic Diseases.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Sm: Pox { Vaccinated .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Unvaccinated .....	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...		
No Statement .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Chicken Pox .....	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Measles .....	35	63	15	10	4	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Scarlet Fever .....	2	10	14	9	6	14	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Diphtheria .....	6	15	8	14	11	20	4	2	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Membranous Croup .....	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Enteric Fever .....	...	...	...	1	1	4	1	5	3	11	8	6	5	1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...		
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Continued Fever.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Whooping Cough .....	41	32	11	3	5	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Asiatic Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Diarrhoea, Dysentery .....	160	46	5	...	...	1	...	1	1	...	...	...	...	...	2	...	4	1	2	1	...	...	...	...	...	...	...	...	...		
Epidemic Enteritis.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Other Allied Diseases .....	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Epidemic Influenza .....	4	1	...	...	...	...	1	1	2	3	1	1	1	3	6	3	5	1	2	...	1	...	...	...	...	...	...	...	...		
Erysipelas .....	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Puerperal Fever.....	...	...	...	...	...	...	...	...	1	1	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Pyæmia Septicæmia .....	2	...	...	...	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Infective Endocarditis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Phagedæna .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Allied Diseases.....	3	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hydrophobia .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Glanders .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tetanus .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Anthrax .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cow Pox .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Syphilis .....	17	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gonorrhœa .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rheumatic Fever .....	...	...	...	...	...	2	1	2	1	...	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	...	
Rheumatism of Heart .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rheumatism.....	...	...	1	...	...	...	...	...	1	...	3	...	...	...	...	...	2	1	...	2	...	...	...	...	...	...	...	...	...	
Ague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Phthisis .....	7	6	4	3	2	13	8	18	33	40	46	40	43	38	49	30	17	6	3	1	...	...	...	407	15	21	51	303	10	
Tuberculosis of Brain.....	23	17	7	4	3	5	7	1	...	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Tuberculosis of Larynx .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Abdominal Tuberculosis .....	23	5	3	3	2	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
General Tuberculosis.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Forms Tuberculosis.....	13	14	...	...	2	5	4	2	...	2	1	...	...	...	1	1	1	...	1	1	...	...	...	...	...	...	...	...	...	
Other Infective Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>II.—Parasitic Diseases.</b>																														
Thrush .....	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Actinomycosis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hydatid Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>III.—Dietic Diseases.</b>																														
Starv: Want Breast Milk .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Atrophy, Debility, Marasmus...	179	18	3	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Scurvy .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Acute Alcoholism .....	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
Chronic Alcoholism .....	...	...	...	...	...	...	...	...	...	1	...	...	1	4	3	...	...	2	...	...	...	...	...	...	...	...	...	...	...	
Chronic Industrial Poisoning...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Chronic Poisonings.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Arsenical Poisoning .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Dis.: due to altered food	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>IV.—Constitutional Diseases.</b>																														
Purpura Hæmorrhagica .....	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Gout .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	
Rickets .....	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cancer, Malignant Dis:.....	...	...	...	...	...	...	...	1	2	...	3	3	14	14	34	29	20	14	10	3	1	...	...	...	...	...	...	...	...	



TABLE 12.—(Continued.)

DISEASES.	AGES IN YEARS.																									Total.	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards.
	AGES IN YEARS.																														
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 to 90	90 and upwards.								
<b>Constitutional Diseases—</b>																															
<i>Continued.</i>																															
Anæmia .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	2	...	...	...	...	...	10	1	...	...	...			
Diabetes Mellitus .....	...	...	...	...	...	...	1	...	1	1	2	1	...	...	1	3	2	1	2	...	...	...	...	16	...	3	4	...			
Asteo-Arthritis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Hæmophilia.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Lymphadenoma .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
<b>V.-Developmental Diseases.</b>																															
Premature Birth.....	168	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	168	...	...	...	...			
Injury at Birth .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...			
Debility at Birth.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Atelectasis .....	11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11	...	...	...			
Malform: Congen: Defects ..	21	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22	1	...	...			
Teething .....	10	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15	5	...	...			
Old Age .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	5	15	29	27	10	7	5	99	...	...	6	93			
<b>VI.—Local Diseases.</b>																															
Dis: OF NERVOUS SYSTEM.																															
Convulsions .....	96	13	6	1	...	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	120	20	4	...	...			
Meningitis .....	22	18	4	1	1	1	4	1	1	1	...	...	...	...	...	1	...	...	...	...	1	...	...	56	24	5	3	...			
Encephalitis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	1	...			
Apoplexy .....	...	...	...	...	...	...	...	...	...	...	1	1	4	5	8	8	11	5	2	...	5	...	...	58	...	...	38	20			
Softening of Brain .....	...	...	...	...	...	...	...	...	...	...	...	...	...	2	3	2	3	2	1	...	...	...	...	13	...	...	7	6			
Hemiplegia .....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	7	...	4	1	...	...	...	17	...	...	11	5			
Gen: Paralysis of Insane .....	...	...	...	...	...	...	...	...	...	...	...	1	1	1	4	...	1	...	1	...	...	...	...	9	...	...	8	1			
Other Forms of Insanity .....	...	...	...	...	...	1	1	...	2	...	...	...	1	3	5	6	6	8	6	5	2	...	...	46	...	2	21	21			
Chorea .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...			
Cerebral Tumour .....	...	1	...	...	...	4	...	...	1	1	...	...	...	3	...	2	1	1	...	...	...	...	...	7	...	...	2	...			
Epilepsy .....	1	...	...	...	...	...	...	...	2	...	...	...	1	3	...	...	...	...	...	...	...	...	...	14	...	...	10	1			
Laryngismus Stridulus .....	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...			
Locomotor Ataxy .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Paraplegia .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...			
Peripheral Neuritis.....	...	...	...	...	...	...	...	...	...	...	2	1	1	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...			
Other Forms, Brain Disease...	...	2	...	...	...	1	...	...	4	1	3	...	5	3	14	6	9	15	6	6	1	1	...	77	2	1	4	29			







	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Eczema.....	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	..	..	1	...	..	..	..	..
Pemphigus .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Dis: Integumentary Sys:	2	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	...	...	...	...	3	...	...	...	1	...
VII.-Deaths from Violence.																													
ACCIDENT OR NEGLIGENCE.																													
In Mines and Quarries .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...
In Vehicular Traffic .....	...	...	1	2	..	2	2	..	...	1	1	1	..	1	..	1	1	1	1	...	...	...	...	11	3	2	...	5	1
On Railways .....	...	...	..	..	..	..	..	..	...	1	..	..	1	1	..	..	..	..	..	...	...	...	...	3	...	...	...	3	...
On Ships, Boats, &c., not Drown'g	...	...	...	...	...	...	...	...	...	1	..	..	1	..	..	1	..	..	..	...	...	...	...	3	...	...	...	3	...
In Building Operations .....	...	...	...	...	...	...	...	...	...	1	..	..	1	1	..	..	..	..	..	...	...	...	...	2	...	...	...	2	...
By Machinery .....	...	...	...	...	...	...	...	...	...	1	..	..	..	1	..	..	..	..	..	...	...	...	...	2	...	...	...	2	...
By Weapons and Implements...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28	16	6	2	2	1
Burns and Scalds .....	1	3	5	6	2	6	6	2	..	...	...	...	1	1	..	..	1	1	...	1	...	...	1	...	...	...	...	1	...
Poisons, Poisonous Vapours ..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	..	..	..	..	...	...	...	...	1	...	...	...	1	...
Surgical Narcosis .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Effects of Electric Shock .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Corrosions by Chemicals .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Drowning .....	...	2	1	..	..	1	1	..	...	...	3	2	1	2	..	..	2	2	..	...	...	...	...	15	3	2	...	10	...
Suffocation, Overlaid in Bed...	12	2	..	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14	2	...	...	...	...
" Otherwise .....	2	..	..	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	...	...	...	...	1	83
Falls not specified .....	1	..	..	1	..	..	..	..	1	1	1	..	4	2	4	4	2	4	1	2	...	...	...	28	1	...	1	18	7
Weather Agencies .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	...	...	...	...	...
Otherwise not stated .....	1	..	..	..	..	..	..	..	...	4	...	1	..	..	..	..	2	...	...	...	...	...	...	10	...	...	7	2	...
Homicide .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SUICIDES.																													
Suicides by Poison .....	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	2	...	...	...	...	...
By Asphyxia .....	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	1	...	...	...	...	...	3	1	...
By Hanging and Strangulation	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	4	...	...	1	4	...
By Drowning .....	...	...	...	...	...	...	...	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	5	...	...	...	...	...
By Shooting.....	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...	...	5	...	...	4	1	...
By Cut or Stab .....	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	4	1	...
By Precip. from Elevated Places	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
By Crushing .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
By other & Unspec: methods..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...
VIII.—Ill-defined.																													
Abscess .....	3	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1	...	...	6	...	...	2	1	...
Tumour.....	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...
Hæmorrhage .....	3	...	...	...	...	1	...	...	...	...	1	...	...	...	1	...	1	...	...	...	...	1	...	8	...	1	3	1	...
Dropsy ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	...	...	1
Sudden Death, cause not asc't'd	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ill-defined & Unspecified causes	21	3	1	4	...	1	1	...	...	...	2	2	7	5	6	7	6	4	12	3	1	...	...	86	8	2	...	35	20

**TABLE 13.**

RECORDED DEATH-RATES PER 1,000, AND THE PROPORTION OF  
DEATHS UNDER ONE YEAR OF AGE PER 1,000 BIRTHS,  
IN THE 33 GREAT TOWNS, IN 1903.

Towns in the order of their Death-Rates.	Recorded Death- Rate.	Proportion of deaths under one year of age per 1,000 births in the 33 great towns of England and Wales.
England and Wales .....	15·4	132
England and Wales less the 179 Towns .....	14·8	118
76 other large Towns .....	16·3	144
103 smaller Towns .....	14·6	135
33 Great Towns .....	16·7	150
Croydon .....	11·8	108
Derby .....	13·6	129
Cardiff .....	14·0	123
Leicester .....	14·2	160
Brighton .....	14·3	114
Bristol .....	14·3	116
Portsmouth .....	14·7	114
Halifax .....	15·0	123
West Ham .....	15·2	146
Norwich .....	15·2	150
Wolverhampton .....	15·5	141
London .....	15·7	132
Blackburn .....	15·7	159
Bradford .....	16·4	148
Plymouth .....	16·5	144
Leeds .....	16·5	153
Birkenhead .....	16·7	156
Huddersfield .....	16·7	120
Gateshead .....	16·7	160
Nottingham .....	16·9	165
Hull .....	16·9	161
Bolton .....	17·4	153
Birmingham .....	17·8	159
Oldham .....	18·6	162
Swansea .....	18·6	165
Sheffield .....	18·6	182
Preston .....	18·7	163
<b>Salford</b> .....	<b>19·1</b>	<b>168</b>
Burnley .....	19·1	217
Newcastle .....	19·2	166
Manchester .....	19·7	169
Sunderland .....	19·9	158
Liverpool .....	20·5	159

TABLE 14.

CAUSES OF DEATH REGISTERED IN EACH OF THE TEN YEARS 1893-1902,  
IN 1903, AND THE AVERAGE DECENNIAL NUMBER.

	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Average	1903
All Causes .....	4895	4311	5318	4850	5070	4881	5187	5542	4802	4375	4923	4325
Small-pox .....	22	2		...	...	...	...	1	...	1	3	1
Measles .....	91	144	210	202	473	100	211	125	114	156	183	131
Scarlet Fever .....	39	110	96	105	61	61	50	99	106	50	78	57
Whooping Cough .....	98	140	133	187	111	128	99	186	91	118	129	96
Diphtheria & Memb. Croup	56	64	73	52	32	33	75	90	140	75	69	86
Croup .....	30	16	23	11	7	6	7	8	6	7	12	9
Typhus Fever .....	2	1	...	1	...	5	...	1	1	12	2	...
Enteric Fever .....	96	63	86	70	64	73	76	66	75	48	72	48
Other Continued Fever ...	1	...	...	1	2	...	1	...	...	...	...	1
*Epidemic Influenza .....	...	...	...	...	57	40	83	137	34	38	65	36
Simple Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa, Dysent:.....	447	147	433	268	446	495	452	318	412	144	356	224
Enteritis .....	82	50	151	125	166	173	179	101	114	82	122	84
Puerperal Fever .....	16	11	9	13	6	14	12	12	20	6	12	7
Erysipelas .....	11	8	3	9	8	5	7	8	12	9	8	5
Other Septic Diseases ...	11	9	13	14	6	8	11	11	11	7	10	8
Phthisis .....	393	379	396	360	383	394	395	405	396	380	388	407
Other Tubercular Diseases	289	244	282	225	232	194	178	157	154	159	211	159
Cancer .....	121	126	123	120	130	163	135	136	155	166	137	148
Bronchitis .....	523	384	539	466	502	470	549	706	517	490	515	460
Pneumonia .....	470	476	559	557	446	469	591	612	423	477	508	418
Pleurisy .....	7	11	1	13	5	7	4	10	12	6	8	4
Other D: Respiratory Org.	96	60	110	55	13	17	22	23	16	19	43	19
Alcoholism .....	58	50	39	35	54	45	50	90	70	45	54	48
Cirrhosis of Liver .....												
Venereal Diseases .....	25	30	38	30	24	27	19	30	22	16	26	20
Premature Birth.....	143	120	138	154	149	161	172	133	143	166	148	168
Brain & Nervous Diseases	402	411	423	479	452	473	490	521	428	459	454	432
Urinary Diseases .....	63	68	101	91	70	89	100	146	102	103	93	90
Atrophy and Marasmus...	305	255	299	258	242	256	258	234	204	188	250	201
Dis: & Accid: of Parturition	28	30	22	18	15	17	18	14	18	20	20	15
Heart Diseases .....	278	235	266	284	283	259	294	380	339	331	295	317
Accidents .....	131	137	143	113	115	99	106	118	128	123	121	119
Suicides .....	8	16	16	21	19	17	13	17	16	14	16	17
All other causes .....	553	514	593	513	497	583	530	647	523	460	541	490

\* Epidemic Influenza is included in "Other Diseases of Respiratory Organs" from  
1892 to 1896.



**TABLE 15.**

SHOWING THE BIRTH-RATES, ALSO RATES OF MORTALITY FROM ALL CAUSES,  
FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES, AND FROM PHTHISIS,  
CANCER, NERVOUS DISEASES, HEART DISEASES, BRONCHITIS,  
AND PNEUMONIA, DURING THE YEARS 1878 TO 1903.

Years.	Popula- tion.	Rates per 1,000 Population from									Deaths under One Year to 1,000 Births.
		Births.	Deaths, All Causes.	Seven Principal Zymotic Diseases.	Phthisis.	Cancer.	Nervous Diseases.	Heart Diseases.	Bronchitis.	Pneumonia.	
1878...	160,277	44.7	27.1	5.4	2.7	0.5	3.5	1.1	3.6	1.8	185
1879...	165,899	43.0	26.7	4.2	2.9	0.4	3.7	1.2	4.3	1.8	170
1880...	171,727	41.4	27.9	7.4	2.7	0.4	3.2	0.9	3.4	1.9	197
1881...	177,760	38.8	22.5	3.0	2.5	0.5	3.1	1.1	3.6	1.6	163
1882...	179,855	39.7	23.7	4.0	2.4	0.4	3.6	1.1	2.8	1.7	177
Average 5 years.		<b>41.5</b>	<b>25.6</b>	<b>4.8</b>	<b>2.6</b>	<b>0.4</b>	<b>3.4</b>	<b>1.1</b>	<b>3.5</b>	<b>1.8</b>	<b>178</b>
1883...	181,951	37.3	23.6	3.4	2.7	0.4	3.1	1.2	3.0	1.7	171
1884...	184,047	38.8	24.4	4.4	2.6	0.5	2.9	1.1	2.8	1.7	184
1885...	186,142	37.6	23.0	3.6	2.6	0.5	2.9	1.2	3.0	1.9	174
1886...	188,238	38.5	24.8	4.1	2.6	0.5	2.8	1.3	3.3	1.8	197
1887...	190,334	36.6	25.5	4.9	2.3	0.5	3.2	1.3	2.9	2.2	195
Average 5 years.		<b>37.8</b>	<b>24.3</b>	<b>4.1</b>	<b>2.6</b>	<b>0.5</b>	<b>3.0</b>	<b>1.2</b>	<b>3.0</b>	<b>1.9</b>	<b>184</b>
1888...	192,429	37.1	24.8	3.9	2.3	0.5	3.0	1.1	3.0	2.1	184
1889...	194,525	35.9	25.1	5.3	1.9	0.6	2.5	1.3	2.6	1.9	181
1890...	196,621	36.1	27.7	4.4	2.2	0.5	2.0	1.3	3.4	3.8	198
1891...	198,775	36.3	26.0	3.4	2.2	0.5	2.2	1.1	3.7	3.0	194
1892...	200,833	35.8	24.6	4.6	1.9	0.6	2.0	1.2	2.6	2.9	186
Average 5 years.		<b>36.2</b>	<b>25.6</b>	<b>4.3</b>	<b>2.1</b>	<b>0.5</b>	<b>2.3</b>	<b>1.2</b>	<b>3.1</b>	<b>2.7</b>	<b>189</b>
1893...	203,015	34.7	24.1	4.2	1.9	0.6	2.0	1.4	2.6	2.3	211
1894...	205,220	34.3	21.1	3.3	1.8	0.6	2.0	1.1	1.9	2.3	174
1895...	207,449	35.9	25.6	5.0	1.9	0.6	2.0	1.3	2.6	2.7	229
1896...	209,703	35.6	23.1	4.2	1.5	0.6	2.3	1.4	2.2	2.7	200
1897...	211,981	35.2	23.9	5.6	1.8	0.6	2.1	1.3	2.4	2.1	219
Average 5 years.		<b>35.1</b>	<b>23.6</b>	<b>4.5</b>	<b>1.8</b>	<b>0.6</b>	<b>2.1</b>	<b>1.3</b>	<b>2.3</b>	<b>2.4</b>	<b>207</b>
1898...	214,284	34.9	22.8	4.2	1.8	0.8	2.2	1.2	2.2	2.2	213
1899...	216,612	34.1	23.9	4.4	1.8	0.6	2.3	1.4	2.5	2.7	211
1900...	218,965	33.3	25.3	4.1	1.8	0.6	2.4	1.7	3.2	2.8	208
1901...	221,526	29.1	21.7	4.2	1.8	0.7	1.9	1.5	2.3	1.9	205
1902...	224,007	33.7	19.2	2.6	1.7	0.7	2.0	1.4	2.1	2.1	157
Average 5 years.		<b>33.0</b>	<b>22.6</b>	<b>3.9</b>	<b>1.8</b>	<b>0.7</b>	<b>2.2</b>	<b>1.4</b>	<b>2.5</b>	<b>2.3</b>	<b>199</b>
1903...	226,480	32.2	19.1	2.8	1.8	0.7	1.9	1.4	2.0	1.8	168

**TABLE 16.**

DEATHS REGISTERED IN THE COUNTY BOROUGH OF SALFORD,  
DURING THE YEAR 1903.

Age.	Males.	Females.
Under 1... ..	702	524
1 to 2 .. ..	226	195
2 to 3... ..	66	55
3 to 4... ..	41	48
4 to 5... ..	21	32
5 to 10... ..	59	75
10 to 15... ..	30	34
15 to 20... ..	26	40
20 to 25... ..	48	47
25 to 35... ..	137	116
35 to 45... ..	167	130
45 to 55... ..	233	195
55 to 65... ..	249	219
65 to 75... ..	175	219
75 to 85... ..	88	104
85 to 95... ..	8	16
Over 95... ..	...	...
	2276	2049





TABLES.

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PART II.

INFECTIOUS DISEASES.

TABLE 17.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1903.

NOTIFIABLE DISEASES.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.					No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.				
	At All Ages.	At Ages—Years.					Borough.	Regent Road.	Greengate.	Pendleton.	Broughton.	Borough.	Regent Road.	Greengate.	Pendleton.	(H1) Broughton.
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.										
Small-pox .....	175	1	4	29	42	98	175	76	23	52	24	169	75	23	51	20
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria .....	327	13	132	141	22	19	327	92	41	97	97	210	51	33	67	59
Membranous Croup.	8	...	3	5	...	...	8	1	1	4	2	4	1	...	2	1
Erysipelas .....	161	3	2	12	24	114	161	53	43	55	10	32	12	6	13	1
Scarlet Fever .....	737	12	241	426	40	18	737	205	104	286	142	578	165	95	212	106
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever .....	178	1	15	38	47	77	178	79	18	62	19	118	57	11	42	8
Relapsing Fever ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever ...	1	...	...	...	...	1	1	...	1	...	...	...	...	...	...	...
Puerperal Fever ...	13	...	...	...	3	10	13	2	...	4	7	6	...	...	1	5
Plague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	1600	30	397	651	178	337	1600	508	231	560	301	1117	361	168	388	200

NOTES.—The localities adopted for this table should be the same as those in Tables 2 and 3.

State the name of the isolation hospital, if any, used by the sick of the district. Mark (H) the locality in which it is situated, or if not within the district, state where it is situated, and in what district. H, Ladywell Sanatorium; H1, Small-pox Hospital, Drinkwater Park, in the Prestwich district. Mark (W) the locality in which workhouse is situated.

**TABLE 18.**

SHOWING THE NUMBER OF CASES OF INFECTIOUS DISEASE NOTIFIED  
TO THE HEALTH DEPARTMENT DURING THE YEARS 1883 TO 1903.

YEAR.	Small-Pox.	Scarlet Fever.	Diphtheria.	FEVER.				Erysipelas.	Total.
				Enteric.	Typhus.	Continued.	Puerperal.		
1883 .....	6	805	81	293	14	...	21	...	1220
1884 .....	5	1154	99	422	35	...	14	...	1729
1885 .....	11	632	54	205	32	...	15	...	949
1886 .....	...	1536	41	288	5	...	12	...	1882
1887 .....	4	1427	83	368	7	...	11	...	1900
Average 5 years	5	1111	72	315	19	...	15	...	1537
1888 .....	52	1128	175	572	31	...	26	...	1984
1889 .....	...	1283	691	485	3	...	14	...	2476
1890 .....	...	985	704	383	6	4	22	76	2180
1891 .....	...	483	231	377	1	6	13	53	1164
1892 .....	7	865	231	347	5	5	26	86	1572
Average 5 years	12	948	406	433	9	3	20	43	1874
1893 .....	168	865	261	563	5	12	30	147	2051
1894 .....	35	1043	242	316	1	14	21	130	1802
1895 .....	4	1167	194	382	...	11	19	111	1888
1896 .....	2	1579	158	291	7	12	24	114	2187
1897 .....	...	714	103	291	...	14	13	121	1256
Average 5 years	42	1074	192	369	3	13	21	125	1836
1898 .....	..	659	97	367	16	14	31	146	1330
1899 .....	...	723	184	273	3	20	26	153	1382
1900 .....	6	1317	309	335	2	8	21	179	2177
1901 .....	...	1320	420	317	1	8	33	230	2329
1902 .....	23	780	292	207	43	6	16	164	1531
Average 5 years	6	960	260	300	13	11	25	174	1750
1903 .....	175	737	335	178	...	1	13	161	1600



**TABLE 19.**

SHEWING THE NUMBER OF CASES OF SICKNESS, AND THE DEATHS  
REGISTERED, DURING THE SEVERAL MONTHS OF THE  
YEAR 1903, IN SALFORD.

Months.	Small-Pox.		Scarlet Fever.		Diphtheria and Memb. Croup.		Typhoid Fever.		Puerperal Fever.		Typhus Fever.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January .....	30	...	42	7	29	7	7	2	2	1	...	...
February ...	25	...	49	3	28	5	3	1	1	1	...	...
March .....	13	...	47	2	17	10	9	3	...	1	...	...
April .....	13	...	45	4	12	2	4	...	2	...	...	...
May .....	58	...	67	3	25	6	18	3	...	...	...	...
June .....	17	...	41	5	42	7	8	4	...	...	...	...
July .....	10	...	67	4	32	9	22	7	...	...	...	...
August .....	2	...	82	6	45	14	17	4	4	1	...	...
September ...	...	...	63	2	22	5	12	5	1	1	...	...
October .....	6	1	101	7	38	8	38	7	2	1	...	...
November ...	...	...	64	7	20	2	18	4	1	1	...	...
December ...	1	...	69	7	25	11	22	8	...	...	...	...
Totals...	175	1	737	57	335	86	178	48	13	7	...	...

TABLE 20.

CASES TREATED IN THE CORPORATION HOSPITALS.

	1894		1895		1896		1897		1898		1899		1900		1901		1902		1903	
	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.
Small Pox .....	34	2	4	1	...	...	...	...	1	...	...	...	4	1	...	...	22	...	193	6
Scarlet Fever .....	610	77	725	61	1061	74	506	32	485	52	510	33	1012	81	979	85	588	45	796	46
Diphtheria .....	75	9	40	12	36	8	26	9	42	12	85	34	133	36	239	73	151	30	332	44
Typhus Fever .....	1	1	...	...	7	1	...	...	15	4	3	...	1	1	1	1	39	12	...	...
Typhoid Fever.....	142	21	195	42	127	27	189	38	240	45	150	32	178	42	166	46	119	29	128	33
Continued Fever ...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	3	2	5	2	7	3	5	2	8	2	11	3	7	1	11	3	5	1	7	2
Erysipelas .....	36	2	25	1	16	2	34	2	42	3	35	2	16	2	29	2	34	4	30	2
Ill-defined or all other Diseases ...	95	18	131	14	65	21	81	12	60	4	154	12	74	12	77	8	203	9	79	1

TABLE 21.

CASES FROM OUT-DISTRICTS TREATED IN THE CORPORATION HOSPITALS.

	1894		1895		1896		1897		1898		1899		1900		1901		1902		1903	
	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.	Cases Admitted.	Deaths.
Small Pox .....	12	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	8	...	28	5
Scarlet Fever .....	57	3	78	6	102	7	67	3	73	8	74	12	316	24	377	26	462	29	204	9
Diphtheria .....	2	...	3	1	2	1	3	1	25	12	76	25	161	37	166	33	180	32	133	26
Typhus Fever .....	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhoid Fever ...	6	1	9	2	26	5	6	1	58	11	46	12	38	13	70	22	52	9	21	7
Continued Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	2	1	...	...	1	...	...	...	2	2	1	1	1	1	1	...
Erysipelas .....	...	...	...	...	...	...	1	...	2	...	2	...	4	1	2	1	4	1	1	...
Ill-defined .....	2	...	4	1	5	...	5	...	10	...	18	4	17	2	18	2	19	1	14	1



**TABLE 22.**

NOTIFIED CASES AND DEATHS FROM DIPHTHERIA  
FOR YEARS 1890 TO 1903.

Year.	Cases Notified.	Deaths.	Percentage.
1890	704	206	29·3
1891	231	78	33·8
1892	231	55	23·8
1893	261	56	21·4
1894	242	64	26·4
1895	194	73	37·6
1896	158	52	32·9
1897	103	32	31·1
1898	97	33	34·0
1899	184	75	40·8
1900	309	90	29·1
1901	420	140	33·3
1902	292	75	25·7
1903	335	86	25·7

**TABLE 23.**

MORTALITY.—RATES PER 1,000 OF THE POPULATION.

## SCARLET FEVER.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
England and Wales...	0·11	0·12	0·12	0·13	0·15	0·13	0·12
33 Great English Towns	0·14	0·13	0·13	0·17	0·21	0·16	0·15
London .....	0·13	0·09	0·08	0·13	0·12	0·11	0·08
<b>Salford</b> .....	<b>0·28</b>	<b>0·23</b>	<b>0·45</b>	<b>0·48</b>	<b>0·22</b>	<b>0·33</b>	<b>0·25</b>

## DIPHTHERIA.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
England and Wales ...	0·24	0·29	0·29	0·27	0·23	0·26	0·18
33 Great English Towns	0·31	0·40	0·35	0·30	0·24	0·32	0·20
London ... . . . .	0·39	0·43	0·34	0·30	0·25	0·34	0·16
<b>Salford</b> .....	<b>0·15</b>	<b>0·35</b>	<b>0·41</b>	<b>0·63</b>	<b>0·33</b>	<b>0·37</b>	<b>0·38</b>

## WHOOPIING COUGH.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
England and Wales ...	0·31	0·30	0·34	0·30	0·29	0·31	0·27
33 Great English Towns	0·42	0·38	0·45	0·36	0·34	0·39	0·30
London .....	0·48	0·38	0·43	0·35	0·41	0·41	0·35
<b>Salford</b> .....	<b>0·60</b>	<b>0·46</b>	<b>0·85</b>	<b>0·41</b>	<b>0·52</b>	<b>0·58</b>	<b>0·42</b>

## MEASLES.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
England and Wales ..	0·39	0·31	0·39	0·27	0·38	0·35	0·27
33 Great English Towns	0·56	0·46	0·43	0·43	0·51	0·48	0·31
London .....	0·68	0·47	0·42	0·43	0·51	0·50	0·44
<b>Salford</b> .....	<b>0·47</b>	<b>0·97</b>	<b>0·57</b>	<b>0·51</b>	<b>0·68</b>	<b>0·64</b>	<b>0·58</b>

## DIARRHŒA.

	1898.	1899.	1900.	1901.	1902.	Mean.	1903.
England and Wales ...	0·45	0·98	0·69	0·91	0·38	0·68	0·50
33 Great English Towns	1·22	1·21	0·94	1·23	0·55	1·03	0·72
London .....	0·97	0·92	0·78	0·87	0·54	0·82	0·39
<b>Salford</b> .....	<b>2·31</b>	<b>2·09</b>	<b>1·45</b>	<b>1·86</b>	<b>0·63</b>	<b>1·67</b>	<b>0·99</b>

**TABLE 24.**

CONNECTION OF CASES OF INFECTIOUS DISEASE WITH THE FORM OF  
CONVENIENCE, FOR THE YEAR 1903.

	Water Closets.		Midden Privy.		Pail Closet.	
	Number.	Per cent. of Houses with Water - Closets.	Number.	Per cent. of Houses with Midden Privies.	Number.	Per cent. of Houses with Pail Closets.
Diphtheria ...	173	0·8	104	0·7	50	0·6
Enteric Fever.	85	0·4	61	0·4	32	0·4

**TABLE 25.**

HOUSES PROVIDED WITH THE DIFFERENT FORM OF CONVENIENCE,  
FOR THE YEAR 1903.

	No. of Houses.	Per cent.
Water Closet .....	21699	49·0
Midden Privy .....	14196	32·0
Pail Closet .....	8400	19·0





## TABLES

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### PART III.

## WORK OF THE HEALTH DEPARTMENT

**TABLE 26.**

COMMON LODGING-HOUSES, 1903.

	Regent Road.	Greengate.	Pendleton.	Total.
Number on Register .....	9	22	5	36
Number added to Register in 1903..	1	1	...	2
„ removed from „ „ ..	...	5	...	5
Number of Rooms.....	72	124	32	228
„ of Beds .....	305	1029	123	1457
Average Number occupied each night—Males .....	204	790	67	1061
„ Females .....	...	11	10	21
Notices served on Landlords.....	...	2	...	2
„ „ Keepers .....	...	8	3	11
Number of Day Inspections ... ..	297	2830	436	3563
„ Night „ .....	10	41	5	56



**TABLE 27.**

HOUSES SUB-LET IN LODGINGS, 1903.

District.	No. of houses now regis- tered.	No. of rooms.	Houses found un- registered during the year.		Complaints.	Notices served on	
			Since regis- tered.	Since discon- tinued.		Land- lords.	Ten- ants.
Regent Road.....	83	318	20	4	9	6	15
Greengate .....	175	693	41	21	35	53	53
Pendleton .....	27	84	22	1	21	1	...
Broughton .....	21	26	7	7	0	3	2
<b>Borough.....</b>	<b>306</b>	<b>1121</b>	<b>90</b>	<b>33</b>	<b>65</b>	<b>63</b>	<b>70</b>

**TABLE 28.**

MILKSHOPS, 1903.

DISTRICT.	No. on Register.	Shippons.	Discontinued.	Newly Registered.	No. of Visits.	Scarlet Fever.	Diphtheria.	Enteric Fever.	Puerperal Fever.	Nursed in Hospital.	Nursed at Home.	Notice issued.	
												Signs.	Sanitary.
Regent .....	128	...	1	4	118	1	1	1	...	3	...	2	4
„ ...	17	...	...	1	69	...	...	...	...	...	...	...	...
„ .....	61	...	4	1	110	...	...	...	...	...	...	...	...
Greengate ...	36	...	1	3	100	...	...	...	...	...	...	...	2
„ ...	49	...	7	3	228	1	...	...	...	1	...	...	...
Pendleton ...	62	6	5	7	90	...	...	...	...	...	...	...	3
„ .....	62	...	1	3	56	...	...	...	...	...	...	3	1
Broughton ...	131	10	13	17	253	2	3	...	...	5	...	3	5
„ ...	19	...	...	3	77	...	...	...	...	...	...	...	1
<b>Borough...</b>	<b>565</b>	<b>16</b>	<b>32</b>	<b>42</b>	<b>1101</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>...</b>	<b>9</b>	<b>...</b>	<b>8</b>	<b>16</b>

There are 565 Milkshops and 16 Shippons on the register, as against 555 in 1902, being an increase of 10 during the year.

Nine cases of infectious disease occurred amongst them. All were removed to hospital, and business suspended until after disinfection.

**TABLE 29.**

MILK FROM FARMERS' CANS, 1903.

Names and Addresses.	Results of Analysis.	Places of Delivery.
J. W., Whalley.....	Pure ..... ..	Salford Station.
T. T., „ ..... ..	„ ..... ..	„ „
J. L., Elton ..... ..	„ ..... ..	Weaste Station.
J. J., Barrow .. ..... ..	„ ..... ..	„ „
J. J., „ ..... ..	„ ..... ..	„ „
E. H., Thelwall ..... ..	„ ..... ..	Old Trafford Station.
E. H., „ ..... ..	„ ..... ..	„ „
E. H., „ ..... ..	„ ..... ..	„ „



**TABLE 30.**

SAMPLES COLLECTED BY THE INSPECTOR UNDER THE "SALE OF FOOD  
AND DRUGS ACT," FROM 1875 TO 1903.

	Total.	Milk.	Butter.	Bread and Flour.	Drugs.	Gro- ceries.	Beer and Porter.	Wines and Spirits.	S'ndrie
1875...	60	37	1	1	1	...	7	4	9
1876...	119	43	2	18	34	17	...	...	5
1877...	390	114	7	159	22	30	18	37	3
1878...	418	197	10	35	31	25	24	70	26
1879...	518	306	16	130	15	28	10	13	...
1880...	506	269	12	48	5	52	71	18	31
1881...	478	376	11	1	...	61	...	8	21
1882...	465	300	7	47	13	3	58	20	17
1883...	497	436	1	29	1	12	...	2	16
1884...	507	359	10	35	7	...	64	11	21
1885...	478	399	21	14	4	13	21	...	6
1886...	483	361	6	21	...	36	1	22	36
1887...	472	355	2	...	...	25	42	43	5
1888...	883	701	6	...	30	83	...	9	54
1889...	832	652	35	...	21	85	15	17	7
1890...	874	591	41	38	24	64	12	49	55
1891...	901	611	20	20	18	134	23	74	1
1892...	853	613	78	31	13	61	7	44	6
1893...	955	855	15	1	...	51	6	27	...
1894...	765	676	50	1	...	35	...	3	...
1895...	767	633	58	7	1	25	...	12	31
1896...	730	419	247	5	...	21	13	20	5
1897...	791	460	236	32	...	24	...	39	...
1898...	771	365	332	16	7	25	...	14	12
1899...	763	338	389	...	5	11	...	...	20
1900...	752	297	327	14	...	33	48	9	24
1901...	760	312	388	10	...	11	26	...	13
1902...	785	296	440	5	...	31	...	...	13
1903...	825	312	355	12	...	70	13	15	48

Table 30.—*continued.*

## PERCENTAGE OF ARTICLES RETURNED AS ADULTERATED.

	Total.	Milk.	Butter.	Bread and Flour.	Drugs.	Gro- ceries.	Beer and Porter.	Wines and Spirits.	S'ndries
1875 .	66·6	62·1	100·0	0·0	0·0	...	100·0	75·0	66·6
1876...	40·3	55·8	50·0	27·8	35·3	17·6	...	...	60·0
1877...	27·4	40·3	28·6	11·3	13·6	6·7	0·0	97·3	0·0
1878...	29·9	29·4	10·0	2·9	51·6	4·0	4·2	67·1	0·0
1879...	12·0	13·1	25·0	5·4	26·6	10·7	10·0	2·3	...
1880...	20·2	25·2	75·0	6·3	0·0	17·3	11·3	11·1	9·7
1881.	16·3	18·1	9·1	0·0	...	1·6	..	37·5	23·8
1882...	15·5	19·0	14·3	2·1	53·8	0·0	1·7	10·0	17·6
1883...	6·6	6·7	0·0	3·4	0·0	8·3	...	50·0	6·3
1884...	7·1	2·8	40·0	5·7	57·1	...	0·0	27·3	61·9
1885...	5·2	4·8	4·8	7·1	0·0	15·4	0·0	...	33·2
1886...	3·9	1·1	50·0	0·0	...	25·0	0·0	0·0	8·3
1887...	8·7	9·9	0·0	...	...	8·0	2·4	7·0	0·0
1888...	6·3	2·8	100·0	...	26·6	13·3	...	0·0	20·4
1889...	10·1	7·3	22·8	...	28·5	24·7	0·0	0·0	14·2
1890...	5·1	1·9	50·0	0·0	0·0	15·6	0·0	30·6	12·7
1891...	6·1	1·4	35·0	10·0	0·0	22·3	0·0	9·4	0·0
1892...	7·4	4·2	29·5	0·0	23·1	18·0	0·0	0·0	0·0
1893...	6·6	4·0	26·7	0·0	0·0	17·6	0·0	59·3	0·0
1894...	1·2	1·1	2·0	0·0	...	0·0	...	0·0	...
1895..	2·3	1·2	15·5	0·0	0·0	8·0	...	0·0	0·0
1896...	4·1	2·4	6·5	0·0	...	0·0	0·0	20·0	0·0
1897...	4·3	4·3	4·2	0·0	0·0	0·0	0·0	7·7	0·0
1898...	1·9	1·6	1·8	0·0	2·9	0·0	...	7·1	0·0
1899...	3·9	2·4	4·4	...	100·0	0·0	...	...	0·0
1900...	3·7	3·4	0·9	0·0	...	0·0	25·0	33·3	4·2
Average,									
1891-00	4·1	2·6	12·6	1·1	17·7	5·8	4·1	13·7	0·5
1901...	1·7	2·9	1·0	0·0	...	0·0	0·0	...	0·0
1902...	1·1	1·7	0·9	0·0	...	0·0	...	...	0·0
1903...	0·6	1·3	0·0	0·0	0·0	0·0	0·0	0·0	2·0

**TABLE 31.**

BAKEHOUSES, 1903.

	Regent.	Green- gate.	Pendle- ton.	Brough- ton.	Total.
Number Registered .....	76	18	73	55	222
„ added to Register .....	22	9	14	11	56
„ Discontinued .....	1	1	2	3	7
Number of Ovens .....	87	28	91	69	275
Wagon Orders .....	12	2	18	12	44
Flue .....	18	17	11	4	50
Iron.....	35	4	41	32	112
Gas .....	22	6	21	20	69
Employees—Males .....	88	36	94	45	263
Females.....	57	13	75	56	201
Notices Served .....	3	1	3	1	8



**TABLE 32.**

SHOP HOURS ACT, 1892.—RETURN, 1903.

District.	Total number of Inspections of Shops.	Total Number of Shops on the Register	Number of Young Persons under 18 years of age Employed.	Male.	Female.	Prosecutions.	Convictions.	Dismissed.	Cautioned.
Regent Road ..	1379	203	310	279	31	...	...	...	4
Greengate.....	608	95	165	156	9	...	...	...	2
Pendleton .....	954	170	272	259	13	...	...	...	2
Broughton .....	395	99	146	129	17	...	...	...	...
<b>Borough.....</b>	<b>3336</b>	<b>567</b>	<b>893</b>	<b>823</b>	<b>70</b>	...	...	...	<b>8</b>

**TABLE 33.**

STEAM BOILERS AND FURNACES IN USE AT THE END OF 1903.

	Regent Road.	Green-gate.	Pendle-ton.	Brough-ton.	Total.
Boilers properly constructed .....	262	124	199	43	627
„ improperly constructed .....	33	42	19	9	103
Notices issued .....	4	7	6	1	18
„ complied with .....	4	7	6	1	18
Blast Furnaces .....	13	31	5	1	50

**TABLE 34.**

THE FOLLOWING IS A LIST OF CASES IN WHICH IT HAS BEEN FOUND  
NECESSARY TO ADOPT MAGISTERIAL PROCEEDINGS DURING  
THE YEAR 1903.

Particulars of Offence.	No. of Cases.	Decisions.	Amount of Fines.
			£ s. d.
Negligently using furnaces constructed to consume their own smoke .....	49	{ Fined ..... 36 } { Withdrawn.. 11 } { Dismissed .. 2 }	41 18 6
Having chimney sending forth smoke in such quantities as to be a nuisance .....	2	Fined ..... 2	4 0 0
Exposing for sale diseased meat .....	2	Fined ..... 2	8 7 6
Selling milk containing 12% of added water.....	2	Fined ..... 2	5 2 6
Occupying house which was unfit for human habitation .....	8	{ Fined ..... 3 } { Withdrawn.. 5 }	1 15 0
Selling Margarine without label .....	1	Fined ..... 1	0 10 0
Not causing every part of apparatus of W.C.'s to be maintained in good order, and every floor of every room to be swept at least once a day .....	1	Dismissed .. 1	...
Occupier of dwelling-house suffering interior of such dwelling-house to be in such a state as to be prejudicial to the health of the inmates .....	2	Fined ..... 2	1 5 0
Allowing adults to occupy sleeping apartment so as to cause space for each to be less than 400 cubic feet.....	2	Fined ..... 2	0 5 0
Permitting bedding to be kept in a dirty and verminous condition..	2	Fined ..... 2	1 5 0
<b>Totals.....</b>	<b>71</b>		£ 64 8 6

**TABLE 35.**

New W.C.'s provided January 1st to December 31st, 1903 :—

Regent District .....	459
Greengate .....	222
Pendleton .....	1269
Broughton .....	650
	<hr/>
	2600

W.C.'s provided to new houses during the same period :—

Regent District .....	105
Greengate .....	25
Pendleton .....	259
Broughton .....	216
	<hr/>
	605

**TABLE 36.**

NEW DWELLINGS ERECTED.

Date.	Salford.	Broughton.	Pendleton.	Totals.
1901 .....	49	304	465	818
1902 .....	273	186	274	733
1903 .....	158	216	254	628
	<hr/>	<hr/>	<hr/>	<hr/>
	480	706	993	2179

INSANITARY DWELLINGS DEMOLISHED.

Date.	Salford.		Broughton.	Pendleton.	Totals.
	Regent.	Greengate.			
1901 .....	...	74	...	...	74
1902 .....	31	48	...	...	79
1903 .....	9	97	...	...	106
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	40	219	...	...	259



**TABLE 37.**

WORK OF THE FEMALE HEALTH VISITORS FOR THE YEAR 1903.

DISTRICT.	No. of Cottages in District.	Visits paid to Cottages.	Dilapidated Houses.	Dirty Houses.	Houses Improved since last visit.	Houses Overcrowded.	Houses invaded by sickness.	Special Reports.	Average Death-Rate, 1894-1898.
Ordsall .....	2469	2530	286	230	496	9	134	68	31'4
St. George's .....	2566	2664	50	140	911	23	86	79	23'4
Ellor Street .....	2245	2794	311	473	1651	21	84	94	29'7
Total.....	<b>7280</b>	<b>7988</b>	<b>647</b>	<b>843</b>	<b>3058</b>	<b>53</b>	<b>304</b>	<b>241</b>	...

TABLE 38.

YEAR 1903.

METEOROLOGY, AND REGISTERED DEATHS FROM ALL CAUSES, AND FROM CERTAIN PREVALENT DISEASES, IN EACH WEEK OF THE YEAR.

Week.		Temperature of the Air.			Temperature— 4-feet below ground	Mean Humidity. Complete Saturation = 100.	Rainfall in Inches.	Deaths Registered from				
Date of ending.	Highest during the Week.	Lowest during the Week.	Mean Temperature.	All Causes.				Seven Zymotic Diseases.	Diarrhoea.	Bronchitis and Pneumonia.	Phthisis.	
1903.												
Jan.	10.....	53.7	32.4	43.3	44.0	83	1.144	92	10	...	16	7
	17.....	37.4	23.4	30.8	45.1	94	0.008	86	21	2	16	9
	24.....	49.5	24.0	40.1	42.7	91	0.493	85	11	1	14	4
	31.....	53.9	32.4	45.3	41.6	89	0.126	92	7	...	20	9
Feb.	7.....	56.1	29.6	42.3	42.4	95	0.134	87	14	2	17	8
	14.....	57.1	34.0	47.8	43.0	92	0.218	85	12	5	19	6
	21.....	58.3	33.3	43.7	43.0	92	0.785	93	10	2	19	11
	28.....	53.7	31.4	42.2	44.7	81	1.247	101	6	1	24	13
Mar.	7.....	56.1	31.4	41.4	44.3	86	0.471	82	16	2	15	8
	14.....	52.7	32.5	42.4	43.2	94	0.306	82	8	...	26	9
	21.....	55.6	30.9	43.8	43.0	88	0.703	93	9	1	28	6
	28.....	63.9	35.0	48.2	44.2	92	0.409	81	13	...	18	6
April	4.....	54.7	36.6	43.9	45.1	83	0.808	83	10	1	22	7
	11.....	56.7	37.2	45.4	45.3	84	0.054	73	10	...	17	7
	18.....	54.8	27.0	37.9	45.5	74	0.394	77	9	1	19	11
	25.....	57.9	28.6	40.9	45.8	79	...	111	12	3	30	8
May	2.....	59.9	28.8	47.4	45.4	87	1.407	88	13	2	22	7
	9.....	58.7	40.5	47.0	47.0	86	1.849	76	11	2	21	4
	16.....	57.3	33.8	45.6	47.3	89	0.584	63	10	1	5	7
	23.....	78.4	36.2	51.5	47.5	75	0.110	90	12	1	15	8
	30.....	73.1	42.5	57.2	50.0	69	0.078	69	9	1	15	5
June	6.....	79.7	41.9	55.9	52.9	73	0.173	62	5	...	16	3
	13.....	69.9	39.0	53.9	53.9	74	0.350	69	11	2	13	10
	20.....	65.0	39.0	49.1	54.0	74	0.084	56	3	...	11	6
	27.....	76.5	35.0	57.5	53.4	67	1.146	81	13	4	14	6
July	4.....	80.1	48.8	61.3	60.1	69	0.120	61	11	2	12	3
	11.....	79.7	45.0	59.6	56.7	73	0.630	63	9	3	13	7
	18.....	68.9	47.8	57.1	57.4	74	0.952	65	6	2	11	6
	25.....	73.3	49.5	58.9	57.4	74	1.450	68	11	2	9	7
Aug.	1.....	70.4	48.9	56.9	58.1	81	0.854	66	6	2	11	5
	8.....	72.7	47.0	59.4	57.9	81	0.454	77	11	7	14	8
	15.....	72.5	47.0	58.1	58.3	81	1.190	94	29	22	7	8
	22.....	68.0	40.0	54.6	57.7	85	1.267	89	30	20	10	6
	29.....	67.5	42.0	56.1	57.1	77	0.681	90	28	21	8	6
Sept.	5.....	72.5	41.4	58.3	56.8	72	0.951	85	31	21	11	2
	12.....	66.9	40.5	52.3	56.7	74	2.381	70	13	12	9	6
	19.....	66.5	34.0	49.2	56.1	66	...	65	11	10	12	10
	26.....	71.4	48.4	59.3	55.1	80	0.602	88	17	13	15	8
Oct.	3.....	68.3	41.8	56.9	55.9	81	0.983	91	15	10	25	4
	10.....	62.9	33.8	51.6	55.6	81	1.272	75	13	7	9	8
	17.....	58.5	37.0	49.8	54.2	79	1.803	106	13	10	18	10
	24.....	58.3	38.4	49.3	54.2	85	1.183	106	14	3	25	9
	31.....	59.5	42.8	49.0	52.1	87	1.882	87	12	6	18	10
Nov.	7.....	55.9	27.0	42.1	51.1	94	0.757	98	12	1	22	11
	14.....	54.5	28.8	47.6	49.9	93	0.783	112	8	1	36	17
	21.....	53.1	26.0	39.2	49.2	91	0.619	98	11	3	16	11
	28.....	56.3	35.0	44.7	48.0	88	1.313	91	11	4	24	10
Dec.	5.....	44.8	24.8	34.0	46.5	90	0.285	96	14	1	29	13
	12.....	55.5	26.0	40.1	44.6	89	0.548	81	7	...	22	7
	19.....	48.3	32.0	41.4	44.3	88	0.103	91	10	...	17	11
	26.....	51.5	31.4	43.3	44.1	88	0.040	68	9	3	17	6
1904												
Jan.	2.....	45.5	26.6	35.5	44.1	82	0.035	91	10	1	16	10

**TABLE 39.**  
METEOROLOGY.

## TEMPERATURES IN QUARTERS AND YEARS.

TEMPERATURE IN SHADE.									
MEAN MAXIMUM.					MEAN MINIMUM.				
	1901.	1902.	1903.			1901.	1902.	1903.	
1st Quarter...	48·5	49·8	54·1		1st Quarter...	29·2	28·9	31·3	
2nd „ ...	70·1	63·0	66·8		2nd „ ...	39·3	36·7	36·8	
3rd „ ...	77·6	71·5	70·7		3rd „ ...	48·6	42·7	44·1	
4th „ ...	54·3	54·8	54·2		4th „ ...	30·1	34·0	31·5	
	—	—	—			—	—	—	
<b>Year...</b>	<b>62·6</b>	<b>59·7</b>	<b>61·4</b>		<b>Year...</b>	<b>36·8</b>	<b>35·6</b>	<b>35·9</b>	
MEAN TEMPERATURE.					MEAN TEMPERATURE— 4 FEET BELOW GROUND.				
	1901.	1902.	1903.			1901.	1902.	1903.	
1st Quarter...	37·7	39·9	42·7		1st Quarter...	42·3	41·9	43·6	
2nd „ ...	51·7	48·7	50·0		2nd „ ...	49·0	47·5	49·8	
3rd „ ...	60·6	56·4	56·6		3rd „ ...	58·5	56·2	57·0	
4th „ ...	43·1	44·9	43·6		4th „ ...	50·0	49·1	48·9	
	—	—	—			—	—	—	
<b>Year...</b>	<b>48·3</b>	<b>47·4</b>	<b>48·2</b>		<b>Year...</b>	<b>49·9</b>	<b>48·7</b>	<b>49·8</b>	
MEAN HUMIDITY.					AMOUNT OF RAINFALL.				
	1901.	1902.	1903.			1901.	1902.	1903.	
1st Quarter...	90	89	89		1st Quarter...	5·87	5·56	6·85	
2nd „ ...	69	82	77		2nd „ ...	5·71	7·34	6·35	
3rd „ ...	70	82	76		3rd „ ...	6·11	6·21	12·39	
4th „ ...	84	85	87		4th „ ...	10·81	9·03	10·62	
	—	—	—			—	—	—	
<b>Year...</b>	<b>78</b>	<b>84</b>	<b>82</b>		<b>Year...</b>	<b>28·50</b>	<b>28·14</b>	<b>36·21</b>	



TABLE 40.

REGISTER OF WORK DONE—YEAR ENDING JANUARY 2nd, 1904.

No. of Complaints received.....		2170
Inspections	{ Of Dwelling-houses .....	8946
	„ Cellars .....	...
	„ Canal Boats.....	206
	„ Visits <i>re</i> Small-pox Contacts	13187
	„ Visits <i>re</i> Vaccination .....	2829
	„ Common Lodging-houses—	
	(Day)	3563
	„ „ „ (Night)	56
	„ Sub-let .....	891
	„ Seamen's Lodging-houses...	55
	„ Slaughter-houses .....	240
	„ Dairies and Milkshops .....	1226
	„ Shippons .....	306
	„ Ashpits after complaint ...	54
	„ Tips .....	342
	„ Workshops .....	2280
	„ Domestic Workshops.....	308
	„ Outworkers .....	459
	„ Laundries .....	4
	„ Ice Cream Shops .....	16
	„ Miscellaneous .....	2888
	„ Bakehouses .....	914
	„ Urinals { Public .....	279
	{ Private .....	1015
	„ Re Infectious Disease .....	4794
Re-inspections.....		13124
Action taken..	{ Notices issued ... ..	2576
	„ uncomplied with .....	123
	{ Letters written.....	8183
Houses Disin- fected .....	{ Summonses issued .....	60
	{ Stripped and washed .....	130
	{ Fumigated .....	1419
House Drains	{ Repaired.....	1332
	{ Reconstructed .....	2122
	{ Trapped .....	219
	{ Slopstone Pipes discon: from..	6
Privies and Ashpits.....	{ Downspouts disconnected from..	174
	{ New, provided .....	...
	{ Repaired and drained .....	...
	{ Cleansed by tenants.....	..
	{ Emptied after complaint .....	932
Water Closets	{ Reconstructed .....	...
	{ New, provided .....	2600
	{ Ventilated .....	5
	{ Soil-pipes ventilated.....	39
Limewashed...	{ Urinals provided .....	2
	{ Dwelling-houses .....	45
	{ Cellars .....	6
	{ Lodging-houses.....	46
	{ Bakehouses .....	274
	{ Slaughter-houses .....	49
	{ Dairies and Milkshops.....	107
	{ Workshops.....	179
	{ Workshops (Domestic) .....	9
Shippons .....		29
Urinals .....		16

Table 40.—*Continued.*REGISTER OF WORK DONE.—*Continued.*

Closure of.....	{ Houses unfit for habitation.....	226
	{ Cellars unfit for habitation.....	19
	Lodging-houses.....	1
	„ „ Sub-let .....	46
Newly	{ Slaughter-houses .....	...
Registered...	{ Workshops.....	136
	{ Dairies and Milkshops... ..	42
	{ Bakehouses .....	53
	{ Second-hand Goods Stores.....	44
Accumulations	{ Manure and Refuse .....	135
Removed ...	{ Stagnant Water .....	16
Smoke	{ Observations taken .....	1903
Nuisance ...	{ Notices served .....	15
Passages and	{ Flagged .....	26
Yards .....	{ Repaired .....	920
	{ Drained .....	5
Infected Bed:	{ Stoved .....	1270
and Clothing	{ Destroyed .....	16
Food .....	Samp. purch. for analysis .....	885
Bad Meat.....	Seizures made .....	294
Animals removed from improper situations... ..		43
Overcrowding of dwellings abated.....		59
Houses repaired, by owners, after notice.....		648
„ cleansed .....		172
Canal Boats painted .....		4
„ defective .....		11
„ repaired.....		6

## APPENDICES.





APPENDIX A.

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Copy of letter sent to the Medical Practitioners in Salford  
as regards the corroboration of the diagnosis of Small-Pox.

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Public Health Department,  
Town Hall, Salford,

*January 19th, 1903.*

Dear Sir,

I have to inform you that a number of cases of very mild modified Small Pox have occurred in the Borough, and that owing to these cases not being recognised a very serious amount of extension of the disease may be expected.

I should be very much obliged if you would inform me of any cases you may have which can possibly be suspected of being Small Pox, and I will visit them and relieve you of any responsibility in connection with them.

Yours faithfully,

C. H. TATTERSALL,

MEDICAL OFFICER OF HEALTH.

Dr.....

## APPENDIX B.

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**Duties of the Medical Officer for the Education Committee :—**

1. To examine any children in the Borough reported to the Committee to be defective or feeble-minded, and to decide whether they shall be instructed at a special centre.
2. To advise the Committee as to the course of study, &c., of the children in attendance at the centres for defective children.
3. To examine blind and deaf children ; to decide whether they are suitable cases to be dealt with under the Blind and Deaf Children Act, and to give the necessary certificates.
4. To examine all candidates selected for appointment under the Committee, or employes, when required by the Committee, and to make out certificates.
5. To examine candidates for pupil teachership, and pupil teachers at the end of the second year, and to make out the certificates required in each case by the Board of Education.
6. To visit, when required by the Committee, any employe who is absent from duty on account of illness, and to report in writing.

7. To make arrangements for the periodical examination of the eyesight and hearing (and, if thought desirable, of the teeth) of the children in the schools.
8. To supervise the taking of anthropometric records of the children in the schools.
9. To examine, when required by the Committee, any child who is stated to be physically unfit to attend school, and to make out a certificate.
10. To give the Committee the benefit of his advice on special occasions, and to attend the meetings of the Committee, when required.

In the exercise of these duties, the Medical Officer himself would be responsible to, and take his instructions from the Education Committee or its Sub-Committees, and would make his reports to such Committees.



